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Brown, S. D., and Piantadosi, C. A. Recovery of energy metabolism in rat brain after carbon monoxide hypoxia. 666.

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Cardinali, M., Sartor, O., and Robbins, K. C. Suramin, an experimental chemotherapeutic drug, activates the receptor for epidermal growth factor and promotes growth of certain malignant cells. 1242.

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Centrella, M., McCarthy, T. L., Kusmik, W. F., and Canalis, E. Isoform-specific regulation of platelet-derived growth factor activity and binding in osteoblast-enriched cultures from fetal rat bone. 1076.
Chafey, P. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.
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Cohen, M. S., and Sparling, P. F. Mucosal infection with *Neisseria gonorrhoeae*. Bacterial adaptation and mucosal defenses. 1699.
Cohen, R. A. *See* Cunningham, L. D., Brecher, P., and Cohen, R. A.
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Coller, B. S., Springer, K. T., Beer, J. H., Mohandas, N., Scudder, L. E., Norton, K. J., and West, S. M. Thromboerythrocytes. In vitro studies of a potential autologous, semi-artificial alternative to platelet transfusions. 546.
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Collins, J. F., Herman, P., Schuch, C., and Bagby, G. C., Jr. c-*myc* antisense oligonucleotides inhibit the colony-forming capacity of *Colo 320* colonic carcinoma cells. 1523.
Colman, P. G. *See* Harrison, L. C., Chu, S. X., DeAizpurua, H. J., Graham, M., Honeyman, M. C., and Colman, P. G.
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Cunningham, L. D., Brecher, P., and Cohen, R. A. Platelet-derived growth factor receptors on macrovascular endothelial cells mediate relaxation via nitric oxide in rat aorta. 878.
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Damsky, C. H., Fitzgerald, M. L., and Fisher, S. J. Distribution patterns of extracellular matrix components and adhesion receptors are intricately modulated during first trimester cytotrophoblast differentiation along the invasive pathway, in vivo. 210.
D'Angelo, E. K. Gilbert, Singer, H. A., and Rembold, C. M. Magnesium relaxes arterial smooth muscle by decreasing intracellular Ca^{2+} without changing intracellular Mg^{2+}. 1988.
Dantzer, R. *See* Fu, Y.-K., Arkins, S., Fuh, G., Cunningham, B. C., Wells, J. A., Fong, S., Cronin, M. J., Dantzer, R., and Kelley, K. W.
Davies, T. F., Martin, A., Concepcion, E. S., Graves, P., Lahat, N., Cohen, W. L., and Ben-Nun, A. Evidence for selective accumulation of intrathyroidal T lymphocytes in human autoimmune thyroid disease based on T cell receptor V gene usage. 157.
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— *See* Rhim, S. H., Millar, S. E., Robey, F., Luo, A.-M., Lou, Y.-H., Yule, T., Allen, P., Dean, J., and Tung, K. S. K.
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DeGasperi, R. *See* Thomas, L. J., Urakaze, M., DeGasperi, R., Kamitani, T., Sugiyama, E., Chang, H.-M., Warren, C. D., and Yeh, E. T. H.
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— *See* Nusrat, A., Delp, C., and Madara, J. L.
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Denburg, J. *See* Ohno, I., Lea, R. G., Flanders, K. C., Clark, D. A., Banwatt, D., Dolovich, J., Denburg, J., Harley, C. B., Gauldie, J., and Jordana, M.
de Nicola, L., Blantz, R. C., and Gabbai, F. B. Nitric oxide and angiotensin II. Glomerular and tubular interaction in the rat. 1248.
Denning, G. M., Ostedgaard, L. S., Cheng, S. H., Smith, A. E., and Welsh, M. J. Localization of cystic fibrosis transmembrane conductance regulator in chloride secretory epithelia. 339.
de Saint-Basile, G., Le Deist, F., Caniglia, M., Lebranchu, Y., Griscelli, C., and Fischer, A. Genetic study of a new X-linked recessive immunodeficiency syndrome. 861.
Desnick, R. J. *See* Warner, C. A., Yoo, H-W, Roberts, A. G., and Desnick, R. J.
Dhermy, D. *See* Gallagher, P. G., Tse, W. T., Coetzer, T., Lecomte, M.-C., Garbarz, M., Zarkowsky, H. S., Baruchel, A., Ballas, S. K., Dhermy, D., Palek, J., and Forget, B. G.
Diaz-Gonzalez, F. *See* Postigo, A. A., Garcia-Vicuña, R., Diaz-Gonzalez, F., Arroyo, A. G., de Landázuri, M. O., Chi-Rosso, G., Lobb, R. R., Laffon, A., and Sánchez-Madrid, F.
Diehl, A. M., Yang, S. Q., Wolfgang, D., and Wand, G. Differential expression of guanine nucleotide—binding proteins enhances cAMP synthesis in regenerating rat liver. 1706.
Dietl, P. *See* Schwiebert, E. M., Karlson, K. H., Friedman, P. A., Dietl, P., Spielman, W. S., and Stanton, B. A.
Dietschy, J. M. *See* Woollett, L. A., Spady, D. K., and Dietschy, J. M.
Dietz, H. C., Pyeritz, R. E., Puffenberger, E. G., Kendzior, R. J., Jr., Corson, G. M., Maslen, C. L., Sakai, L. Y., Francomano, C. A., and Cutting, G. R. Marfan phenotype variability in a family segregating a missense mutation in the epidermal growth factor–like motif of the fibrillin gene. 1674.
DiFabio, J. *See* Paoletti, L. C., Kasper, D. L., Michon, F., DiFabio, J., Jennings, H. J., Tosteson, T. D., and Wessels, M. R.
Digel, W., Porzsolt, F., Schmid, M., Herrmann, F., Lesslauer, W., and Brockhaus, M. High levels of circulating soluble receptors for tu-

mor necrosis factor in hairy cell leukemia and type B chronic lymphocytic leukemia. 1690.
Dissous, C. *See* Chamekh, M., Gras-Masse, H., Bossus, M., Facon, B., Dissous, C., Tartar, A., and Capron, A.
Djaldetti, M. *See* Bakimer, R., Fishman, P., Blank, M., Sredni, B., Djaldetti, M., and Shoenfeld, Y.
Doebber, T. W. *See* Sparrow, C. P., Doebber, T. W., Olszewski, J., Wu, M. S., Ventre, J., Stevens, K. A., and Chao, Y.-s.
Dohm, G. L. *See* Friedman, J. E., Dohm, G. L., Leggett-Frazier, N., Elton, C. W., Tapscott, E. B., Pories, W. P., and Caro, J. F.
Doig, P. *See* Sajjan, U., Reisman, J., Doig, P., Irvin, R. T., Forstner, G., and Forstner, J.
Doldi, N. *See* Rabinovici, J., Spencer, S. J., Doldi, N., Goldsmith, P. C., Schwall, R., and Jaffe, R. B.
Dolovich, J. *See* Ohno, I., Lea, R. G., Flanders, K. C., Clark, D. A., Banwatt, D., Dolovich, J., Denburg, J., Harley, C. B., Gauldie, J., and Jordana, M.
Doss, M. *See* Ishida, N., Fujita, H., Fukuda, Y., Noguchi, T., Doss, M., Kappas, A., and Sassa, S.
Dowse, G. *See* Olansky, L., Welling, C., Giddings, S., Adler, S., Bourey, R., Dowse, G., Serjeantson, S., Zimmet, P., and Permutt, M. A.
Drezner, M. K. *See* Nesbitt, T., Coffman, T. M., Griffiths, R., and Drezner, M. K.
Dupont, G. P., Huecksteadt, T. P., Marshall, B. C., Ryan, U. S., Michael, J. R., and Hoidal, J. R. Regulation of xanthine dehydrogenase and xanthine oxidase activity and gene expression in cultured rat pulmonary endothelial cells. 197.

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Eastman, R. C., Carson, R. E., Orloff, D. G., Cochran, C. S., Perdue, J. F., Rechler, M. M., Lanau, F., Roberts, C. T., Jr., Shapiro, J., Roth, J., and LeRoith, D. Glucose utilization in a patient with hepatoma and hypoglycemia. Assessment by a positron emission tomography. 1958.
Eaves, C. J. *See* Hughes, P. F. D., Thacker, J. D., Hogge, D., Sutherland, H. J., Thomas, T. E., Lansdorp, P. M., Eaves, C. J., and Humphries, R. K.
Eberli, F. R. *See* Mochizuki, T., Eberli, F. R., Apstein, C. S., and Lorell, B. H.
Eckardt, K.-U., Ratcliffe, P. J., Tan, C. C., Bauer, C., and Kurtz, A. Age-dependent expression of the erythropoietin gene in rat liver and kidneys. 753.
Edano, A. *See* Segal, K. R., Albu, J., Chun, A., Edano, A., Legaspi, B., and Pi-Sunyer, F. X.
Edberg, J. C. *See* Salmon, J. E., Edberg, J. C., Brogle, N. L., and Kimberly, R. P.
Edelman, C. *See* Peterson, P. K., Gekker, G., Chao, C. C., Hu, S., Edelman, C., Balfour, H. H., Jr., and Verhoef, J.
Edelman, E. R., Nugent, M. A., Smith, L. T., and Karnovsky, M. J. Basic fibroblast growth factor enhances the coupling of intimal hyperplasia and proliferation of vasa vasorum in injured rat arteries. 465.
Egashira, K., Inou, T., Yamada, A., Hirooka, Y., and Takeshita, A. Preserved endothelium-dependent vasodilation at the vasospastic site in patients with variant angina. 1047.
Egestad, B. *See* Marschall, H.-U., Matern, H., Wietholtz, H., Egestad, B., Matern, S., and Sjövall, J.
Ehata, T., Omata, M., Yokosuka, O., Hosoda, K., and Ohto, M. Variations in codons 84–101 in the core nucleotide sequence correlate with hepatocellular injury in chronic hepatitis B virus infection. 332.
Elias, P. M. *See* Lee, S. H., Elias, P. M., Proksch, E., Menon, G. K., Mao-Quiang, M., and Feingold, K. R.
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Elmets, C. A. *See* Mirando, W. S., Shiratsuchi, H., Tubesing, K., Toba, H., Ellner, J. J., and Elmets, C. A.
Elton, C. W. *See* Friedman, J. E., Dohm, G. L., Leggett-Frazier, N., Elton, C. W., Tapscott, E. B., Pories, W. P., and Caro, J. F.
Emmerich, J. *See* Vidaud, D., Emmerich, J., Alhenc-Gelas, M., Yvart, J., Fiessinger, J. N., and Aiach, M.
Ennis, F. A. *See* Takeda, A., Robinson, J. E., Ho, D. D., Debouck, C., Haigwood, N. L., and Ennis, F. A.
Entman, M. L. *See* Youker, K., Smith, C. W., Anderson, D. C., Miller, D., Michael, L. H., Rossen, R. D., and Entman, M. L.
Erickson, R. W., Malawista, S. E., Garrett, M. C., Van Blaricom, G., Leto, T. L., and Curnutte, J. T. Identification of a thermolabile component of the human neutrophil NADPH oxidase. A model for chronic granulomatous disease caused by deficiency of the p67-*phox* cytosolic component. 1587.
Erlander, M. G. *See* Kaufman, D. L., Erlander, M. G., Clare-Salzler, M., Atkinson, M. A., Maclaren, N. K., and Tobin, A. J.
Escher, J. C., de Koning, N. D., Van Engen, C. G. J., Arora, S., Büller, H. A., Montgomery, R. K., and Grand, R. J. Molecular basis of lactase levels in adult humans. 480.
Esmon, C. T. *See* Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Charo, I. F., Nelken, N. A., Esmon, N., Esmon, C. T., and Coughlin, S. R.
Esmon, N. *See* Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Charo, I. F., Nelken, N. A., Esmon, N., Esmon, C. T., and Coughlin, S. R.
Esparza, L. *See* Albani, S., Tuckwell, J. E., Esparza, L., Carson, D. A., and Roudier, J.
Esser, K. M. *See* Rabinovici, R., Sofronski, M. D., Renz, J. F., Hillegas, L. M., Esser, K. M., Vernick, J., and Feuerstein, G.
Everitt, J. *See* Lo, S. K., Everitt, J., Gu, J., and Malik, A. B.

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Faber, N. M. *See* Kuijpers, R. W. A. M., Faber, N. M., Cuypers, H. Th. M., Ouwehand, W. H., and Von dem Borne, A. E. G. Kr.
Fabien, N. *See* Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A.
Facon, B. *See* Chamekh, M., Gras-Masse, H., Bossus, M., Facon, B., Dissous, C., Tartar, A., and Capron, A.
Fanelli, C. G., de Feo, P., Porcellati, F., Perriello, G., Torlone, E., Santeusanio, F., Brunetti, P., and Bolli, G. B. Adrenergic mechanisms contribute to the late phase of hypoglycemic glucose counterregulation in humans by stimulating lipolysis. 2005.
Fang, W.-G., Pirnia, F., Bang, Y.-J., Myers, C. E., and Trepel, J. B. P_2-purinergic receptor agonists inhibit the growth of androgen-independent prostate carcinoma cells. 191.
Fardeau, M. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.
Farhy, R. D. *See* Stoos, B. A., Carretero, O. A., Farhy, R. D., Scicli, G., and Garvin, J. L.
Feingold, K. R. *See* Adi, S., Pollock, A. S., Shigenaga, J. K., Moser, A. H., Feingold, K. R., and Grunfeld, C.
— *See* Lee, S. H., Elias, P. M., Proksch, E., Menon, G. K., Mao-Quiang, M., and Feingold, K. R.
Felder, R. A. *See* Sidhu, A., Vachvanichsanong, P., Jose, P. A., and Felder, R. A.
Felding-Habermann, B., Mueller, B. M., Romerdahl, C. A., and Cheresh, D. A. Involvement of integrin αV gene expression in human melanoma tumorigenicity. 2018.
Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D. Hereditary and acquired p53 gene mutations in childhood acute lymphoblastic leukemia. 640.
Fenton, J. W., II. *See* Carney, D. H., Mann, R., Redin, W. R., Pernia, S. D., Berry, D., Heggers, J. P., Hayward, P. G., Robson, M. C., Christie, J., Annable, C., Fenton, J. W., II, and Glenn, K. C.
Féray, C., Samuel, D., Thiers, V., Gigou, M., Pichon, F., Bismuth, A., Reynes, M., Maisonneuve, P., Bismuth, H., and Bréchot, C. Reinfection of liver graft by hepatitis C virus after liver transplantation. 1361.
Ferguson, M. *See* O'Brien, K. D., Gordon, D., Deeb, S., Ferguson, M., and Chait, A.
Ferrante, A. *See* Kumaratilake, L. M., Robinson, B. S., Ferrante, A., and Poulos, A.
Ferrara, N. *See* Jakeman, L. B., Winer, J., Bennett, G. L., Altar, C. A., and Ferrara, N.

Ferrell, L. D. *See* Neuschwander-Tetri, B. A., Ferrell, L. D., Sukhabote, R. J., and Grendell, J. H.
Feuerstein, G. *See* Rabinovici, R., Sofronski, M. D., Renz, J. F., Hillegas, L. M., Esser, K. M., Vernick, J., and Feuerstein, G.
Fey, M. F., Peter, H.-J., Hinds, H. L., Zimmermann, A., Liechti-Gallati, S., Gerber, H., Studer, H., and Tobler, A. Clonal analysis of human tumors with M27β, a highly informative polymorphic X chromosomal probe. 1438.
Field, A. *See* Rosenfeld, S. J., Yoshimoto, K., Kajigaya, S., Anderson, S., Young, N. S., Field, A., Warrener, P., Bansal, G., and Collett, M. S.
Fiessinger, J. N. *See* Vidaud, D., Emmerich, J., Alhenc-Gelas, M., Yvart, J., Fiessinger, J. N., and Aiach, M.
Fischer, A. *See* Chaffee, S., Mary, A., Stiehm, E. R., Girault, D., Fischer, A., and Hershfield, M. S.
— *See* de Saint-Basile, G., Le Deist, F., Caniglia, M., Lebranchu, Y., Griscelli, C., and Fischer, A.
Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L. Interleukin-1 receptor blockade improves survival and hemodynamic performance in *Escherichia coli* septic shock, but fails to alter host responses to sublethal endotoxemia. 1551.
Fischer, M. *See* Lloyd, M., Mevissen, G., Fischer, M., Olsen, W., Goodspeed, D., Genini, M., Boll, W., Semenza, G., and Mantei, N.
Fisher, E. A. *See* Sparks, J. D., Zolfaghari, R., Sparks, C. E., Smith, H. C., and Fisher, E. A.
Fisher, S. J. *See* Damsky, C. H., Fitzgerald, M. L., and Fisher, S. J.
Fishman, P. *See* Bakimer, R., Fishman, P., Blank, M., Sredni, B., Djaldetti, M., and Shoenfeld, Y.
Fitzgerald, M. L. *See* Damsky, C. H., Fitzgerald, M. L., and Fisher, S. J.
Flake, A. W. *See* Zanjani, E. D., Pallavicini, M. G., Ascensao, J. L., Flake, A. W., Langlois, R. G., Reitsma, M., MacKintosh, F. R., Stutes, D., Harrison, M. R., and Tavassoli, M.
Flamand, L. *See* Gosselin, J., Flamand, L., D'Addario, M., Hiscott, J., and Menezes, J.
Flanders, K. C. *See* Ohno, I., Lea, R. G., Flanders, K. C., Clark, D. A., Banwatt, D., Dolovich, J., Denburg, J., Harley, C. B., Gauldie, J., and Jordana, M.
Flannery, C. R. *See* Sandy, J. D., Flannery, C. R., Neame, P. J., and Lohmander, L. S.
Fleischman, R. A. Human piebald trait resulting from a dominant negative mutant allele of the c-*kit* membrane receptor gene. 1713.
Flier, J. S. *See* Benecke, H., Flier, J. S., and Moller, D. E.
Foerder, C. A. *See* Zager, R. A., and Foerder, C. A.
Fong, M. *See* Strassmann, G., Fong, M., Kenney, J. S., and Jacob, C. O.
Fong, S. *See* Fu, Y.-K., Arkins, S., Fuh, G., Cunningham, B. C., Wells, J. A., Fong, S., Cronin, M. J., Dantzer, R., and Kelley, K. W.
Forget, B. G. *See* Gallagher, P. G., Tse, W. T., Coetzer, T., Lecomte, M.-C., Garbarz, M., Zarkowsky, H. S., Baruchel, A., Ballas, S. K., Dhermy, D., Palek, J., and Forget, B. G.
Forstner, G. *See* Sajjan, U., Reisman, J., Doig, P., Irvin, R. T., Forstner, G., and Forstner, J.
Forstner, J. *See* Sajjan, U., Reisman, J., Doig, P., Irvin, R. T., Forstner, G., and Forstner, J.
Forstner, J. F. *See* Sajjan, U. S., Corey, M., Karmali, M. A., and Forstner, J. F.
Forsythe, P. A. *See* Alam, R., Lett-Brown, M. A., Forsythe, P. A., Anderson-Walters, D. J., Kenamore, C., Kormos, C., and Grant, J. A.
Fortin, S. M. *See* Maddox, D. A., Fortin, S. M., Tartini, A., Barnes, W. D., and Gennari, F. J.
Fournier, D. *See* Lanza, F., Stierlé, A., Fournier, D., Morales, M., André, G., Nurden, A. T., and Cazenave, J.-P.
Fournier, S., Delespesse, G., Rubio, M., Biron, G., and Sarfati, M. CD23 antigen regulation and signaling in chronic lymphocytic leukemia. 1312.
Fowler, M. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.
Fox, M. *See* Turner, N., Mason, P. J., Brown, R., Fox, M., Povey, S., Rees, A., and Pusey, C. D.
Francis, C. W. *See* Bunce, L. A., Sporn, L. A., and Francis, C. W.
Francomano, C. A. *See* Dietz, H. C., Pyeritz, R. E., Puffenberger, E. G., Kendzior, R. J., Jr., Corson, G. M., Maslen, C. L., Sakai, L. Y., Francomano, C. A., and Cutting, G. R.
Frank, I. *See* Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B.
Friedman, J. E., Dohm, G. L., Leggett-Frazier, N., Elton, C. W., Tapscott, E. B., Pories, W. P., and Caro, J. F. Restoration of insulin responsiveness in skeletal muscle of morbidly obese patients after weight loss. Effect on muscle glucose transport and glucose transporter GLUT4. 701.
Friedman, P. A. *See* Schwiebert, E. M., Karlson, K. H., Friedman, P. A., Dietl, P., Spielman, W. S., and Stanton, B. A.
Froesch, E. R. *See* Zenobi, P. D., Graf, S., Ursprung, H., and Froesch, E. R.
Fu, Y.-K., Arkins, S., Fuh, G., Cunningham, B. C., Wells, J. A., Fong, S., Cronin, M. J., Dantzer, R., and Kelley, K. W. Growth hormone augments superoxide anion secretion of human neutrophils by binding to the prolactin receptor. 451.
Fugate, R. D. *See* Koren, E., Reichlin, M. W., Koscec, M., Fugate, R. D., and Reichlin, M.
Fuh, G. *See* Fu, Y.-K., Arkins, S., Fuh, G., Cunningham, B. C., Wells, J. A., Fong, S., Cronin, M. J., Dantzer, R., and Kelley, K. W.
Fujimoto, K., Imamura, I., Granger, D. N., Wada, H., Sakata, T., and Tso, P. Histamine and histidine decarboxylase are correlated with mucosal repair in rat small intestine after ischemia-reperfusion. 126.
Fujita, H. *See* Ishida, N., Fujita, H., Fukuda, Y., Noguchi, T., Doss, M., Kappas, A., and Sassa, S.
Fujita, T. *See* Okazaki, T., Ando, K., Igarashi, T., Ogata, E., and Fujita, T.
Fujiwara, Y. *See* Nishio, K., Sugimoto, Y., Fujiwara, Y., Ohmori, T., Morikage, T., Takeda, Y., Ohata, M., and Saijo, N.
Fukao, T., Yamaguchi, S., Orii, T., Schutgens, R. B. H., Osumi, T., and Hashimoto, T. Identification of three mutant alleles of the gene for mitochondrial acetoacetyl-coenzyme A thiolase. A complete analysis of two generations of a family with 3-ketothiolase deficiency. 474.
Fukuda, Y. *See* Ishida, N., Fujita, H., Fukuda, Y., Noguchi, T., Doss, M., Kappas, A., and Sassa, S.
Furne, J. K. *See* Smith, T., DeMaster, E. G., Furne, J. K., Springfield, J., and Levitt, M. D.
Fusco, A. *See* Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A.

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Gabbai, F. B. *See* de Nicola, L., Blantz, R. C., and Gabbai, F. B.
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Galili, U. *See* Hamadeh, R. M., Jarvis, G. A., Galili, U., Mandrell, R. E., Zhou, P., and Griffiss, J. M.
Gallagher, P. G., Tse, W. T., Coetzer, T., Lecomte, M.-C., Garbarz, M., Zarkowsky, H. S., Baruchel, A., Ballas, S. K., Dhermy, D., Palek, J., and Forget, B. G. A common type of the spectrin αI 46–50a-kD peptide abnormality in hereditary elliptocytosis and pyropoikilocytosis is associated with a mutation distant from the proteolytic cleavage site. Evidence for the functional importance of the triple helical model of spectrin. 892.
Gallin, J. I. *See* Kuhns, D. B., DeCarlo, E., Hawk, D. M., and Gallin, J. I.
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Ganz, M. B. *See* Petzel, D., Ganz, M. B., Nestler, E. J., Lewis, J. J., Goldenring, J., Akcicek, F., and Hayslett, J. P.
Garbarz, M. *See* Gallagher, P. G., Tse, W. T., Coetzer, T., Lecomte, M.-C., Garbarz, M., Zarkowsky, H. S., Baruchel, A., Ballas, S. K., Dhermy, D., Palek, J., and Forget, B. G.
Garcia, J. *See* Schwartz, G. G., Steinman, S., Garcia, J., Greyson, C., Massie, B., and Weiner, M. W.

Garcia, J. E. *See* Hurwitz, A., Loukides, J., Ricciarelli, E., Botero, L., Katz, E., McAllister, J. M., Garcia, J. E., Rohan, R., Adashi, E. Y., and Hernandez, E. R.

Garcia-Vicuña, R. *See* Postigo, A. A., Garcia-Vicuña, R., Diaz-Gonzalez, F., Arroyo, A. G., de Landázuri, M. O., Chi-Rosso, G., Lobb, R. R., Laffon, A., and Sánchez-Madrid, F.

Garrett, M. C. *See* Erickson, R. W., Malawista, S. E., Garrett, M. C., Van Blaricom, G., Leto, T. L., and Curnutte, J. T.

Garvin, J. L. *See* Stoos, B. A., Carretero, O. A., Farhy, R. D., Scicli, G., and Garvin, J. L.

Gauldie, J. *See* Ohno, I., Lea, R. G., Flanders, K. C., Clark, D. A., Banwatt, D., Dolovich, J., Denburg, J., Harley, C. B., Gauldie, J., and Jordana, M.

Gekker, G. *See* Peterson, P. K., Gekker, G., Chao, C. C., Hu, S., Edelman, C., Balfour, H. H., Jr., and Verhoef, J.

Gelfand, E. W. *See* Larsen, G. L., Renz, H., Loader, J. E., Bradley, K. L., and Gelfand, E. W.

Gembal, M., Gilon, P., and Henquin, J.-C. Evidence that glucose can control insulin release independently from its action on ATP-sensitive K^+ channels in mouse B cells. 1288.

Geng, Y.-j., and Hansson, G. K. Interferon-γ inhibits scavenger receptor expression and foam cell formation in human monocyte-derived macrophages. 1322.

Genini, M. *See* Lloyd, M., Mevissen, G., Fischer, M., Olsen, W., Goodspeed, D., Genini, M., Boll, W., Semenza, G., and Mantei, N.

Gennari, F. J. *See* Maddox, D. A., Fortin, S. M., Tartini, A., Barnes, W. D., and Gennari, F. J.

George, E. *See* Mohandas, N., Winardi, R., Knowles, D., Leung, A., Parra, M., George, E., Conboy, J., and Chasis, J.

Gerber, H. *See* Fey, M. F., Peter, H.-J., Hinds, H. L., Zimmermann, A., Liechti-Gallati, S., Gerber, H., Studer, H., and Tobler, A.

Gerich, J. *See* Nurjhan, N., Consoli, A., and Gerich, J.

Giaccari, A., and Rossetti, L. Predominant role of gluconeogenesis in the hepatic glycogen repletion of diabetic rats. 36.

Giddings, S. *See* Olansky, L., Welling, C., Giddings, S., Adler, S., Bourey, R., Dowse, G., Serjeantson, S., Zimmet, P., and Permutt, M. A.

Gigou, M. *See* Féray, C., Samuel, D., Thiers, V., Gigou, M., Pichon, F., Bismuth, A., Reynes, M., Maisonneuve, P., Bismuth, H., and Bréchot, C.

Gilon, P. *See* Gembal, M., Gilon, P., and Henquin, J.-C.

Ginsburg, R. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.

Girasole, G., Jilka, R. L., Passeri, G., Boswell, S., Boder, G., Williams, D. C., and Manolagas, S. C. 17β-Estradiol inhibits interleukin-6 production by bone marrow-derived stromal cells and osteoblasts in vitro: a potential mechanism for the antiosteoporotic effect of estrogens. 883.

Girault, D. *See* Chaffee, S., Mary, A., Stiehm, E. R., Girault, D., Fischer, A., and Hershfield, M. S.

Glenn, K. C. *See* Carney, D. H., Mann, R., Redin, W. R., Pernia, S. D., Berry, D., Heggers, J. P., Hayward, P. G., Robson, M. C., Christie, J., Annable, C., Fenton, J. W., II, and Glenn, K. C.

Go, R. *See* Volanakis, J. E., Zhu, Z.-B., Schaffer, F. M., Macon, K. J., Palermos, J., Barger, B. O., Go, R., Campbell, R. D., Schroeder, H. W., Jr., and Cooper, M. D.

Goedert, J. J. *See* Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B.

Goldberg, I. J. *See* Saxena, U., Klein, M. G., Vanni, T. M., and Goldberg, I. J.

Goldenring, J. *See* Petzel, D., Ganz, M. B., Nestler, E. J., Lewis, J. J., Goldenring, J., Akcicek, F., and Hayslett, J. P.

Goldfine, I. D. *See* Milazzo, G., Yip, C. C., Maddux, B. A., Vigneri, R., and Goldfine, I. D.

Goldsmith, P. C. *See* Rabinovici, J., Spencer, S. J., Doldi. N., Goldsmith, P. C., Schwall, R., and Jaffe, R. B.

Goldstein, I. M. *See* Boylan, A. M., Rüegg, C., Kim, K. J., Hébert, C. A., Hoeffel, J. M., Pytela, R., Sheppard, D., Goldstein, I. M., and Broaddus, V. C.

Goldstein, R. *See* Reveille, J. D., Owerbach, D., Goldstein, R., Moreda, R., Isern, R. A., and Arnett, F. C.

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Good, D. W. Effects of osmolality on bicarbonate absorption by medullary thick ascending limb of the rat. 184.

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Goronzy, J. *See* He, X., Goronzy, J., and Weyand, C.

Goronzy, J. J. *See* Weyand, C. M., Xie, C., and Goronzy, J. J.

Gosselin, J., Flamand, L., D'Addario, M., Hiscott, J., and Menezes, J. Infection of peripheral blood mononuclear cells by herpes simplex and Epstein-Barr viruses. Differential induction of interleukin 6 and tumor necrosis factor-α. 1849.

Gotoda, T. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.

Govan, H. L., III. *See* Braun, J., Berberian, L., King, L., Sanz, I., and Govan, H. L., III

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— *See* Bass, D. M., and Greenberg, H. B.

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Grossman, W. *See* Amende, I., Bentivegna, L. A., Zeind, A. J., Wenzlaff, P., Grossman, W., and Morgan, J. P.

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Guidolin, A. *See* McNeilage, L. J., Umapathysivam, K., Macmillan, E., Guidolin, A., Whittingham, S., and Gordon, T.

Gunji, H., Hass, R., and Kufe, D. Internucleosomal DNA fragmentation during phorbol ester–induced monocytic differentiation and G_0/G_1 arrest. 954.

Gunning, M. E., Brady, H. R., Otuechere, G., Brenner, B. M., and Zeidel, M. L. Atrial natriuretic peptide$_{(31\text{-}67)}$ inhibits Na^+ transport in rabbit inner medullary collecting duct cells. Role of prostaglandin E_2. 1411.

Gurley, D. S. *See* Reynolds, D. S., Gurley, D. S., and Austen, K. F.

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Habener, J. F. *See* Ron, D., Brasier, A. R., McGehee, R. E., Jr., and Habener, J. F.

Hadida, F., Parrot, A., Kieny, M.-P., Sadat-Sowti, B., Mayaud, C., Debre, P., and Autran, B. Carboxyl-terminal and central regions of human immunodeficiency virus-1 NEF recognized by cytotoxic T lymphocytes from lymphoid organs. An in vitro limiting dilution analysis. 53.

Hafeez, W., Ciliberto, G., and Perlmutter, D. H. Constitutive and modulated expression of the human α_1 antitrypsin gene. Different transcriptional initiation sites used in three different cell types. 1214.

Haigwood, N. L. *See* Takeda, A., Robinson, J. E., Ho, D. D., Debouck, C., Haigwood, N. L., and Ennis, F. A.

Hailat, N. *See* Keim, D., Hailat, N., Melhem, R., Zhu, X. X., Lascu, I., Veron, M., Strahler, J., and Hanash, S. M.

Hamadeh, R. M., Jarvis, G. A., Galili, U., Mandrell, R. E., Zhou, P., and Griffiss, J. M. Human natural anti-Gal IgG regulates alternative complement pathway activation on bacterial surfaces. 1223.

Hanash, S. M. *See* Keim, D., Hailat, N., Melhem, R., Zhu, X. X., Lascu, I., Veron, M., Strahler, J., and Hanash, S. M.

Hansson, G. K. *See* Geng, Y.-j., and Hansson, G. K.

Harada, K. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.

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Harrington, R. M. *See* Pastoriza-Munoz, E., Harrington, R. M., and Graber, M. L.

Harrison, L. C., Chu, S. X., DeAizpurua, H. J., Graham, M., Honeyman, M. C., and Colman, P. G. Islet-reactive T cells are a marker of preclinical insulin-dependent diabetes. 1161.

Harrison, M. R. *See* Zanjani, E. D., Pallavicini, M. G., Ascensao, J. L., Flake, A. W., Langlois, R. G., Reitsma, M., MacKintosh, F. R., Stutes, D., Harrison, M. R., and Tavassoli, M.

Hashimoto, K., Whitehurst, C. E., Matsubara, T., Hirohata, K., and Lipsky, P. E. Immunomodulatory effects of therapeutic gold compounds. Gold sodium thiomalate inhibits the activity of T cell protein kinase C. 1839.

Hashimoto, T. *See* Fukao, T., Yamaguchi, S., Orii, T., Schutgens, R. B. H., Osumi, T., and Hashimoto, T.

Hass, R. *See* Gunji, H., Hass, R., and Kufe, D.

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Haverty, T. P., Kelly, C. J., Hoyer, J. R., Alvarez, R., and Neilson, E. G. Tubular antigen-binding proteins repress transcription of type IV collagen in the autoimmune target epithelium of experimental interstitial nephritis. 517.

Hawes, A. S. *See* Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L.

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Hayward, P. G. *See* Carney, D. H., Mann, R., Redin, W. R., Pernia, S. D., Berry, D., Heggers, J. P., Hayward, P. G., Robson, M. C., Christie, J., Annable, C., Fenton, J. W., II, and Glenn, K. C.

He, X., Goronzy, J., and Weyand, C. Selective induction of rheumatoid factors by superantigens and human helper T cells. 673.

Hébert, C. A. *See* Boylan, A. M., Rüegg, C., Kim, K. J., Hébert, C. A., Hoeffel, J. M., Pytela, R., Sheppard, D., Goldstein, I. M., and Broaddus, V. C.

Heggers, J. P. *See* Carney, D. H., Mann, R., Redin, W. R., Pernia, S. D., Berry, D., Heggers, J. P., Hayward, P. G., Robson, M. C., Christie, J., Annable, C., Fenton, J. W., II, and Glenn, K. C.

Henquin, J.-C. *See* Gembal, M., Gilon, P., and Henquin, J.-C.

Henriksen, J. E. *See* Vaag, A., Henriksen, J. E., and Beck-Nielsen, H.

Henriksson, P., Angelin, B., and Berglund, L. Hormonal regulation of serum Lp (a) levels. Opposite effects after estrogen treatment and orchidectomy in males with prostatic carcinoma. 1166.

Herman, P. *See* Collins, J. F., Herman, P., Schuch, C., and Bagby, G. C., Jr.

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Herrmann, F. *See* Digel, W., Porzsolt, F., Schmid, M., Herrmann, F., Lesslauer, W., and Brockhaus, M.

Herrmann, M. A. *See* Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A.

Hershfield, M. S. *See* Chaffee, S., Mary, A., Stiehm, E. R., Girault, D., Fischer, A., and Hershfield, M. S.

Hertle, M. D., Kubler, M.-D., Leigh, I. M., and Watt, F. M. Aberrant integrin expression during epidermal wound healing and in psoriatic epidermis. 1892.

Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E. Evidence for cytokine-inducible nitric oxide synthesis from L-arginine in patients receiving interleukin-2 therapy. 867.

Hillegas, L. M. *See* Rabinovici, R., Sofronski, M. D., Renz, J. F., Hillegas, L. M., Esser, K. M., Vernick, J., and Feuerstein, G.

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Hintz, R. L. *See* Bernstein, D., Jasper, J. R., Rosenfeld, R. G., and Hintz, R. L.

Hirohata, K. *See* Hashimoto, K., Whitehurst, C. E., Matsubara, T., Hirohata, K., and Lipsky, P. E.

Hirooka, Y. *See* Egashira, K., Inou, T., Yamada, A., Hirooka, Y., and Takeshita, A.

Hiscott, J. *See* Gosselin, J., Flamand, L., D'Addario, M., Hiscott, J., and Menezes, J.

Hla, T. *See* Sano, H., Hla, T., Maier, J. A. M., Crofford, L. J., Case, J. P., Maciag, T., and Wilder, R. L.

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Hoeffel, J. M. *See* Boylan, A. M., Rüegg, C., Kim, K. J., Hébert, C. A., Hoeffel, J. M., Pytela, R., Sheppard, D., Goldstein, I. M., and Broaddus, V. C.

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Hogge, D. *See* Hughes, P. F. D., Thacker, J. D., Hogge, D., Sutherland, H. J., Thomas, T. E., Lansdorp, P. M., Eaves, C. J., and Humphries, R. K.

Hoidal, J. R. *See* Dupont, G. P., Huecksteadt, T. P., Marshall, B. C., Ryan, U. S., Michael, J. R., and Hoidal, J. R.

Holoshitz, J., Vila, L. M., Keroack, B. J., McKinley, D. R., and Bayne, N. K. Dual antigenic recognition by cloned human $\gamma\delta$ T cells. 308.

Honeyman, M. C. *See* Harrison, L. C., Chu, S. X., DeAizpurua, H. J., Graham, M., Honeyman, M. C., and Colman, P. G.

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Horibe, K. *See* Kiyoi, H., Naoe, T., Horibe, K., and Ohno, R.

Horie, S., Moe, O., Miller, R. T., and Alpern, R. J. Long-term activation of protein kinase C causes chronic Na/H antiporter stimulation in cultured proximal tubule cells. 365.

— *See* Benjamin, I. J., Horie, S., Greenberg, M. L., Alpern, R. J., and Williams, R. S.

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Hoyer, L. W. *See* Aly, A. M., Arai, M., and Hoyer, L. W.
— *See* Aly, A. M., and Hoyer, L. W.
Hu, K.-Q., Yu, C.-H., and Vierling, J. M. Direct detection of circulating hepatitis C virus RNA using probes from the 5' untranslated region. 2040.
Hu, S. *See* Peterson, P. K., Gekker, G., Chao, C. C., Hu, S., Edelman, C., Balfour, H. H., Jr., and Verhoef, J.
Huang, C., Stewart, A. K., Schwartz, R. S., and Stollar, B. D. Immunoglobulin heavy chain gene expression in peripheral blood B lymphocytes. 1331.
Huang, J. H. *See* Tsai, S. L., Chen, P. J., Lai, M. Y., Yang, P. M., Sung, J. L., Huang, J. H., Hwang, L. H., Chang, T. H., and Chen, D. S.
Hueckseteadt, T. P. *See* Dupont, G. P., Hueckseteadt, T. P., Marshall, B. C., Ryan, U. S., Michael, J. R., and Hoidal, J. R.
Hughes, P. F. D., Thacker, J. D., Hogge, D., Sutherland, H. J., Thomas, T. E., Lansdorp, P. M., Eaves, C. J., and Humphries, R. K. Retroviral gene transfer to primitive normal and leukemic hematopoietic cells using clinically applicable procedures. 1817.
Hugnot, J-P. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.
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Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Charo, I. F., Nelken, N. A., Esmon, N., Esmon, C. T., and Coughlin, S. R. "Mirror image" antagonists of thrombin-induced platelet activation based on thrombin receptor structure. 444.
—, **Vu, T.-K. H., Wheaton, V. I., Ishii, K., Coughlin, S. R.** Cloned platelet thrombin receptor is necessary for thrombin-induced platelet activation. 1350.
— *See* Coughlin, S. R., Vu, T.-K. H., Hung, D. T., and Wheaton, V. I.
Hurwitz, A., Loukides, J., Ricciarelli, E., Botero, L., Katz, E., McAllister, J. M., Garcia, J. E., Rohan, R., Adashi, E. Y., and Hernandez, E. R. Human intraovarian interleukin-1 (IL-1) system: Highly compartmentalized and hormonally dependent regulation of the genes encoding IL-1, its receptor, and its receptor antagonist. 1746.
Hwang, L. H. *See* Tsai, S. L., Chen, P. J., Lai, M. Y., Yang, P. M., Sung, J. L., Huang, J. H., Hwang, L. H., Chang, T. H., and Chen, D. S.

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Igarashi, T. *See* Okazaki, T., Ando, K., Igarashi, T., Ogata, E., and Fujita, T.
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Imamura, I. *See* Fujimoto, K., Imamura, I., Granger, D. N., Wada, H., Sakata, T., and Tso, P.
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Inou, T. *See* Egashira, K., Inou, T., Yamada, A., Hirooka, Y., and Takeshita, A.
Inoue, I. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.
Insel, R. A. *See* Adderson, E. E., Shackelford, P. G., Insel, R. A., Quinn, A., Wilson, P. M., and Carroll, W. L.
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Isern, R. A. *See* Reveille, J. D., Owerbach, D., Goldstein, R., Moreda, R., Isern, R. A., and Arnett, F. C.
Ishida, N., Fujita, H., Fukuda, Y., Noguchi, T., Doss, M., Kappas, A., and Sassa, S. Cloning and expression of the defective genes from a patient with δ-aminolevulinate dehydratase porphyria. 1431.
Ishii, K. *See* Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Ishii, K., and Coughlin, S. R.
Ishii, Y., Partridge, C. A., Del Vecchio, P. J., and Malik, A. B. Tumor necrosis factor-α–mediated decrease in glutathione increases the sensitivity of pulmonary vascular endothelial cells to H_2O_2. 794.
Isoyama, S. *See* Takahashi, T., Schunkert, H., Isoyama, S., Wei, J. Y., Nadal-Ginard, B., Grossman, W., and Izumo, S.
Izumo, S. *See* Takahashi, T., Schunkert, H., Isoyama, S., Wei, J. Y., Nadal-Ginard, B., Grossman, W., and Izumo, S.

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Jacob, C. O. *See* Strassmann, G., Fong, M., Kenney, J. S., and Jacob, C. O.
Jaffa, A. A., Vio, C. P., Silva, R. H., Vavrek, R. J., Stewart, J. M., Rust, P. F., and Mayfield, R. K. Evidence for renal kinins as mediators of amino acid–induced hyperperfusion and hyperfiltration in the rat. 1460.
Jaffe, R. B. *See* Rabinovici, J., Spencer, S. J., Doldi, N., Goldsmith, P. C., Schwall, R., and Jaffe, R. B.
Jakeman, L. B., Winer, J., Bennett, G. L., Altar, C. A., and Ferrara, N. Binding sites for vascular endothelial growth factor are localized on endothelial cells in adult rat tissues. 244.
James, D. E. *See* Koranyi, L., James, D. E., Kraegen, E. W., and Permutt, M. A.
Jansen, R. *See* Crane, A. M., Jansen, R., Andrews, E. R., and Ledley, F. D.
Jansson, P.-A., Larsson, A., Smith, U., and Lönnroth, P. Glycerol production in subcutaneous adipose tissue in lean and obese humans. 1610.
Jantzen, E. *See* Brandtzaeg, P., Bryn, K., Kierulf, P., Øvstebø, R., Namork, E., Aase, B., and Jantzen, E.
Jarvis, G. A. *See* Hamadeh, R. M., Jarvis, G. A., Galili, U., Mandrell, R. E., Zhou, P., and Griffiss, J. M.
Jasper, J. R. *See* Bernstein, D., Jasper, J. R., Rosenfeld, R. G., and Hintz, R. L.
Jawien, A., Bowen-Pope, D. F., Lindner, V., Schwartz, S. M., and Clowes, A. W. Platelet-derived growth factor promotes smooth muscle migration and intimal thickening in a rat model of balloon angioplasty. 507.
Jayaraman, K. *See* King, C. L., Kumaraswami, V., Poindexter, R. W., Kumari, S., Jayaraman, K., Alling, D. W., Ottesen, E. A., and Nutman, T. B.
Jenkins, E. P., Andersson, S., Imperato-McGinley, J., Wilson, J. D., and Russell, D. W. Genetic and pharmacological evidence for more than one human steroid 5α-reductase. 293.
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Jennings, H. J. *See* Paoletti, L. C., Kasper, D. L., Michon, F., DiFabio, J., Jennings, H. J., Tosteson, T. D., and Wessels, M. R.
Jilka, R. L. *See* Girasole, G., Jilka, R. L., Passeri, G., Boswell, S., Boder, G., Williams, D. C., and Manolagas, S. C.
Jordana, M. *See* Ohno, I., Lea, R. G., Flanders, K. C., Clark, D. A., Banwatt, D., Dolovich, J., Denburg, J., Harley, C. B., Gauldie, J., and Jordana, M.
Jose, P. A. *See* Sidhu, A., Vachvanichsanong, P., Jose, P. A., and Felder, R. A.

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Kablitz, C. *See* Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E.

Kachur, J. F. *See* Tamai, H., Gaginella, T. S., Kachur, J. F., Musch, M. W., and Chang, E. B.

Kahn, B. B. Facilitative glucose transporters: regulatory mechanisms and dysregulation in diabetes. 1367.

— *See* Pedersen, O., Kahn, C. R., and Kahn, B. B.

Kahn, C. R. *See* Pedersen, O., Kahn, C. R., and Kahn, B. B.

Kajigaya, S. *See* Rosenfeld, S. J., Yoshimoto, K., Kajigaya, S., Anderson, S., Young, N. S., Field, A., Warrener, P., Bansal, G., and Collett, M. S.

Kamitani, T. *See* Thomas, L. J., Urakaze, M., DeGasperi, R., Kamitani, T., Sugiyama, E., Chang, H.-M., Warren, C. D., and Yeh, E. T. H.

Kaneda, K. *See* Ueda, T., Takeyama, Y., Kaneda, K., Adachi, M., Ohyanagi, H., and Saitoh, Y.

Kao, H.-L. *See* Chiu, J.-H., Kao, H.-L., Wu, L.-H., Chang, H.-M., and Lui, W.-Y.

Kaplan, J-C. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.

Kappas, A. *See* Ishida, N., Fujita, H., Fukuda, Y., Noguchi, T., Doss, M., Kappas, A., and Sassa, S.

Karlson, K. H. *See* Schwiebert, E. M., Karlson, K. H., Friedman, P. A., Dietl, P., Spielman, W. S., and Stanton, B. A.

Karmali, M. A. *See* Sajjan, U. S., Corey, M., Karmali, M. A., and Forstner, J. F.

Karnovsky, M. J. *See* Edelman, E. R., Nugent, M. A., Smith, L. T., and Karnovsky, M. J.

Karpatkin, S., and Nardi, M. Autoimmune anti–HIV-1gp120 antibody with antiidiotype-like activity in sera and immune complexes of HIV-1–related immunologic thrombocytopenia. 356.

Karwande, S. V. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.

Kasper, D. L. *See* Paoletti, L. C., Kasper, D. L., Michon, F., DiFabio, J., Jennings, H. J., Tosteson, T. D., and Wessels, M. R.

Kather, H. *See* Krieger-Brauer, H. I., and Kather, H.

Katz, A. I. *See* Satoh, T., Cohen, H. T., and Katz, A. I.

Katz, E. *See* Hurwitz, A., Loukides, J., Ricciarelli, E., Botero, L., Katz, E., McAllister, J. M., Garcia, J. E., Rohan, R., Adashi, E. Y., and Hernandez, E. R.

Kaufman, D. L., Erlander, M. G., Clare-Salzler, M., Atkinson, M. A., Maclaren, N. K., and Tobin, A. J. Autoimmunity to two forms of glutamate decarboxylase in insulin-dependent diabetes mellitus. 283.

Kawamura, M. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.

Kays, M. *See* Cacalano, G., Kays, M., Saiman, L., and Prince, A.

Keim, D., Hailat, N., Melhem, R., Zhu, X. X., Lascu, I., Veron, M., Strahler, J., and Hanash, S. M. Proliferation-related expression of p19/nm23 nucleoside diphosphate kinase. 919.

Kelley, K. W. *See* Fu, Y.-K., Arkins, S., Fuh, G., Cunningham, B. C., Wells, J. A., Fong, S., Cronin, M. J., Dantzer, R., and Kelley, K. W.

Kelly, C. J. *See* Haverty, T. P., Kelly, C. J., Hoyer, J. R., Alvarez, R., and Neilson, E. G.

Kenamore, C. *See* Alam, R., Lett-Brown, M. A., Forsythe, P. A., Anderson-Walters, D. J., Kenamore, C., Kormos, C., and Grant, J. A.

Kendzior, R. J., Jr. *See* Dietz, H. C., Pyeritz, R. E., Puffenberger, E. G., Kendzior, R. J., Jr., Corson, G. M., Maslen, C. L., Sakai, L. Y., Francomano, C. A., and Cutting, G. R.

Kenney, J. S. *See* Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L.

— *See* Strassmann, G., Fong, M., Kenney, J. S., and Jacob, C. O.

Keroack, B. J. *See* Holoshitz, J., Vila, L. M., Keroack, B. J., McKinley, D. R., and Bayne, N. K.

Khambalia, B. *See* Andrew, M., Mitchell, L., Berry, L., Paes, B., Delorme, M., Ofosu, F., Burrows, R., and Khambalia, B.

Kida, Y., Raz, I., Maeda, R., Nyomba, B. L., Stone, K., Bogardus, C., Sommercorn, J., and Mott, D. M. Defective insulin response of phosphorylase phosphatase in insulin-resistant humans. 610.

Kieber-Emmons, T. *See* Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B.

Kiekens, R., Veld, P. In't, Mahler, T., Schuit, F., Van De Winkel, M., and Pipeleers, D. Differences in glucose recognition by individual rat pancreatic B cells are associated with intercellular differences in glucose-induced biosynthetic activity. 117.

Kieny, M.-P. *See* Hadida, F., Parrot, A., Kieny, M.-P., Sadat-Sowti, B., Mayaud, C., Debre, P., and Autran, B.

Kierulf, P. *See* Brandtzaeg, P., Bryn, K., Kierulf, P., Øvstebø, R., Namork, E., Aase, B., and Jantzen, E.

Kim, K. J. *See* Boylan, A. M., Rüegg, C., Kim, K. J., Hébert, C. A., Hoeffel, J. M., Pytela, R., Sheppard, D., Goldstein, I. M., and Broaddus, V. C.

Kimberly, R. P. *See* Salmon, J. E., Edberg, J. C., Brogle, N. L., and Kimberly, R. P.

Kimura, M., Lasker, N., and Aviv, A. Cyclic nucleotides attenuate thrombin-evoked alterations in parameters of platelet Na/H antiport. The role of cytosolic Ca. 1121.

King, C. L., Kumaraswami, V., Poindexter, R. W., Kumari, S., Jayaraman, K., Alling, D. W., Ottesen, E. A., and Nutman, T. B. Immunologic tolerance in lymphatic filariasis. Diminished parasite-specific T and B lymphocyte precursor frequency in the microfilaremic state. 1403.

King, L. *See* Braun, J., Berberian, L., King, L., Sanz, I., and Govan, H. L., III

Kitano, N. *See* Yano, H., Kitano, N., Morimoto, M., Polonsky, K. S., Imura, H., and Seino, Y.

Kiyoi, H., Naoe, T., Horibe, K., and Ohno, R. Characterization of the immunoglobulin heavy chain complementarity determining region (CDR)-III sequences from human B cell precursor acute lymphoblastic leukemia cells. 739.

Klebanoff, S. J., and Coombs, R. W. Viricidal effect of polymorphonuclear leukocytes on human immunodeficiency virus-1. Role of the myeloperoxidase system. 2014.

Klein, H.-G., Lohse, P., Pritchard, P. H., Bojanovski, D., Schmidt, H., and Brewer, H. B., Jr. Two different allelic mutations in the lecithin-cholesterol acyltransferase gene associated with the fish eye syndrome. Lecithin-cholesterol acyltransferase ($Thr_{123} \rightarrow Ile$) and lecithin-cholesterol acyltransferase ($Thr_{347} \rightarrow Met$). 499.

Klein, I., Ojamaa, K., Samarel, A. M., Welikson, R., and Hong, C. Hemodynamic regulation of myosin heavy chain gene expression. Studies in the transplanted rat heart. 68.

Klein, J. W. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.

Klein, M. G. *See* Saxena, U., Klein, M. G., Vanni, T. M., and Goldberg, I. J.

Klinman, D. M. *See* Shirai, A., Cosentino, M., Leitman-Klinman, S. F., and Klinman, D. M.

Knowles, D. *See* Mohandas, N., Winardi, R., Knowles, D., Leung, A., Parra, M., George, E., Conboy, J., and Chasis, J.

Knowlton, A. A., Connelly, C. M., Romo, G. M., Mamuya, W., Apstein, C. S., and Brecher, P. Rapid expression of fibronectin in the rabbit heart after myocardial infarction with and without reperfusion. 1060.

Knowlton, R. G. *See* Ryynänen, M., Ryynänen, J., Sollberg, S., Iozzo, R. V., Knowlton, R. G., and Uitto, J.

Knutsen, T. *See* Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D.

Knuuti, J. *See* Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H.

Koevary, S. B., and Blomberg, M. Prevention of diabetes in BB/Wor rats by intrathymic islet injection. 512.

Kohzaki, K. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.

Koike, T. *See* Sumida, T., Yonaha, F., Maeda, T., Tanabe, E., Koike, T., Tomioka, H., and Yoshida, S.

Koivisto, V. A. *See* Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H.

Komamura, K., Shannon, R. P., Pasipoularides, A., Ihara, T., Lader, A. S., Patrick, T. A., Bishop, S. P., and Vatner, S. F. Alterations in left ventricular diastolic function in conscious dogs with pacing-induced heart failure. 1825.

— *See* Perreault, C. L., Shannon, R. P., Komamura, K., Vatner, S. F., and Morgan, J. P.

Kootstra, N. A. *See* Schuitemaker, H., Kootstra, N. A., Koppelman, M. H. G. M., Bruisten, S. M., Huisman, H. G., Tersmette, M., and Miedema, F.

Koppelman, M. H. G. M. *See* Schuitemaker, H., Kootstra, N. A., Koppelman, M. H. G. M., Bruisten, S. M., Huisman, H. G., Tersmette, M., and Miedema, F.

Koranyi, L., James, D. E., Kraegen, E. W., and Permutt, M. A. Feedback inhibition of insulin gene expression by insulin. 432.

Koren, E., Reichlin, M. W., Koscec, M., Fugate, R. D., and Reichlin, M. Autoantibodies to the ribosomal P proteins react with a plasma membrane–related target on human cells. 1236.

Korman, S. H., Le Blancq, S. M., Deckelbaum, R. J., and Van der Ploeg, L. H. T. Investigation of human giardiasis by karyotype analysis. 1725.

Kormos, C. *See* Alam, R., Lett-Brown, M. A., Forsythe, P. A., Anderson-Walters, D. J., Kenamore, C., Kormos, C., and Grant, J. A.

Koscec, M. *See* Koren, E., Reichlin, M. W., Koscec, M., Fugate, R. D., and Reichlin, M.

Kraegen, E. W. *See* Koranyi, L., James, D. E., Kraegen, E. W., and Permutt, M. A.

Krieger-Brauer, H. I., and Kather, H. Human fat cells possess a plasma membrane–bound H_2O_2-generating system that is activated by insulin via a mechanism bypassing the receptor kinase. 1006.

Kubler, M.-D. *See* Hertle, M. D., Kubler, M.-D., Leigh, I. M., and Watt, F. M.

Kufe, D. *See* Gunji, H., Hass, R., and Kufe, D.

Kuhns, D. B., DeCarlo, E., Hawk, D. M., and Gallin, J. I. Dynamics of the cellular and humoral components of the inflammatory response elicited in skin blisters in humans. 1734.

Kuijpers, R. W. A. M., Faber, N. M., Cuypers, H. Th. M., Ouwehand, W. H., and Von dem Borne, A. E. G. Kr. NH_2-terminal globular domain of human platelet glycoprotein Ibα has a methionine^{145}/threonine^{145} amino acid polymorphism, which is associated with the HPA-2 (Ko) alloantigens. 381.

Kukita, A. *See* Roodman, G. D., Kurihara, N., Ohsaki, Y., Kukita, A., Hosking, D., Demulder, A., Smith, J. F., and Singer, F. R.

Kumaraswami, V. *See* King, C. L., Kumaraswami, V., Poindexter, R. W., Kumari, S., Jayaraman, K., Alling, D. W., Ottesen, E. A., and Nutman, T. B.

Kumaratilake, L. M., Robinson, B. S., Ferrante, A., and Poulos, A. Antimalarial properties of n-3 and n-6 polyunsaturated fatty acids: in vitro effects on *Plasmodium falciparum* and in vivo effects on *P. berghei*. 961.

Kumari, S. *See* King, C. L., Kumaraswami, V., Poindexter, R. W., Kumari, S., Jayaraman, K., Alling, D. W., Ottesen, E. A., and Nutman, T. B.

Kurihara, N. *See* Roodman, G. D., Kurihara, N., Ohsaki, Y., Kukita, A., Hosking, D., Demulder, A., Smith, J. F., and Singer, F. R.

Kurtz, A. *See* Eckardt, K.-U., Ratcliffe, P. J., Tan, C. C., Bauer, C., and Kurtz, A.

Kushner, J. P. *See* Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E.

Kusmik, W. F. *See* Centrella, M., McCarthy, T. L., Kusmik, W. F., and Canalis, E.

Kuwahara, M., Sasaki, S., and Marumo, F. Mineralocorticoids and acidosis regulate H^+/HCO_3^- transport of intercalated cells. 1388.

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Labib, R. S. *See* Oursler, J. R., Labib, R. S., Ariss-Abdo, L., Burke, T., O'Keefe, E. J., and Anhalt, G. J.

Lader, A. S. *See* Komamura, K., Shannon, R. P., Pasipoularides, A., Ihara, T., Lader, A. S., Patrick, T. A., Bishop, S. P., and Vatner, S. F.

Laffon, A. *See* Postigo, A. A., Garcia-Vicuña, R., Diaz-Gonzalez, F., Arroyo, A. G., de Landázuri, M. O., Chi-Rosso, G., Lobb, R. R., Laffon, A., and Sánchez-Madrid, F.

Lahat, N. *See* Davies, T. F., Martin, A., Concepcion, E. S., Graves, P., Lahat, N., Cohen, W. L., and Ben-Nun, A.

Lai, M. Y. *See* Tsai, S. L., Chen, P. J., Lai, M. Y., Yang, P. M., Sung, J. L., Huang, J. H., Hwang, L. H., Chang, T. H., and Chen, D. S.

Lanau, F. *See* Eastman, R. C., Carson, R. E., Orloff, D. G., Cochran, C. S., Perdue, J. F., Rechler, M. M., Lanau, F., Roberts, C. T., Jr., Shapiro, J., Roth, J., and LeRoith, D.

Landesman, S. *See* Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B.

Landis, B. *See* Quarfordt, S. H., Landis, B., Cucchiaro, G., Yamaguchi, Y., and Oswald, B.

Landry, D. W., and Oliver, J. A. The ATP-sensitive K^+ channel mediates hypotension in endotoxemia and hypoxic lactic acidosis in dog. 2071.

Langlois, R. G. *See* Zanjani, E. D., Pallavicini, M. G., Ascensao, J. L., Flake, A. W., Langlois, R. G., Reitsma, M., MacKintosh, F. R., Stutes, D., Harrison, M. R., and Tavassoli, M.

Lansdorp, P. M. *See* Hughes, P. F. D., Thacker, J. D., Hogge, D., Sutherland, H. J., Thomas, T. E., Lansdorp, P. M., Eaves, C. J., and Humphries, R. K.

Lanza, F., Stierlé, A., Fournier, D., Morales, M., André, G., Nurden, A. T., and Cazenave, J.-P. A new variant of Glanzmann's thrombasthenia (Strasbourg I). Platelets with functionally defective glycoprotein IIb–IIIa complexes and a glycoprotein IIIa ^{214}Arg → ^{214}Trp mutation. 1995.

Larrabee, P. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.

Larsen, G. L., Renz, H., Loader, J. E., Bradley, K. L., and Gelfand, E. W. Airway response to electrical field stimulation in sensitized inbred mice. Passive transfer of increased responsiveness with peribronchial lymph nodes. 747.

Larsson, A. *See* Jansson, P.-A., Larsson, A., Smith, U., and Lönnroth, P.

Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M. Predictive testing for multiple endocrine neoplasia type 1 using DNA polymorphisms. 1344.

Lascu, I. *See* Keim, D., Hailat, N., Melhem, R., Zhu, X. X., Lascu, I., Veron, M., Strahler, J., and Hanash, S. M.

Lasker, N. *See* Kimura, M., Lasker, N., and Aviv, A.

Laurell, M., Christensson, A., Abrahamsson, P.-A., Stenflo, J., and Lilja, H. Protein C inhibitor in human body fluids: seminal plasma is rich in inhibitor antigen deriving from cells throughout the male reproductive system. 1094.

Lea, R. G. *See* Ohno, I., Lea, R. G., Flanders, K. C., Clark, D. A., Banwatt, D., Dolovich, J., Denburg, J., Harley, C. B., Gauldie, J., and Jordana, M.

Le Blancq, S. M. *See* Korman, S. H., Le Blancq, S. M., Deckelbaum, R. J., and Van der Ploeg, L. H. T.

Lebranchu, Y. *See* de Saint-Basile, G., Le Deist, F., Caniglia, M., Lebranchu, Y., Griscelli, C., and Fischer, A.

Lecomte, M.-C. *See* Gallagher, P. G., Tse, W. T., Coetzer, T., Lecomte, M.-C., Garbarz, M., Zarkowsky, H. S., Baruchel, A., Ballas, S. K., Dhermy, D., Palek, J., and Forget, B. G.

Le Deist, F. *See* de Saint-Basile, G., Le Deist, F., Caniglia, M., Lebranchu, Y., Griscelli, C., and Fischer, A.

Ledley, F. D. *See* Crane, A. M., Jansen, R., Andrews, E. R., and Ledley, F. D.

Lee, S. H., Elias, P. M., Proksch, E., Menon, G. K., Mao-Quiang, M., and Feingold, K. R. Calcium and potassium are important regulators of barrier homeostasis in murine epidermis. 530.

Lee, T. S., MacGregor, L. C., Fluharty, S. J., and King, G. L. Retraction. 717.

Legaspi, B. *See* Segal, K. R., Albu, J., Chun, A., Edano, A., Legaspi, B., and Pi-Sunyer, F. X.

Leggett-Frazier, N. *See* Friedman, J. E., Dohm, G. L., Leggett-Frazier, N., Elton, C. W., Tapscott, E. B., Pories, W. P., and Caro, J. F.
Leigh, I. M. *See* Hertle, M. D., Kubler, M.-D., Leigh, I. M., and Watt, F. M.
Leitman-Klinman, S. F. *See* Shirai, A., Cosentino, M., Leitman-Klinman, S. F., and Klinman, D. M.
Lencer, W. *See* Madara, J. L., Parkos, C., Colgan, S., MacLeod, R. J., Nash, S., Matthews, J., Delp, C., and Lencer, W.
Lenz, H. J., Messmer, B., and Zimmerman, F. G. Noradrenergic inhibition of canine gallbladder contraction and murine pancreatic secretion during stress by corticotropin-releasing factor. 437.
Leonard, M. L. *See* Rich, E. A., Chen, I. S. Y., Zack, J. A., Leonard, M. L., and O'Brien, W. A.
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Lesslauer, W. *See* Digel, W., Porzsolt, F., Schmid, M., Herrmann, F., Lesslauer, W., and Brockhaus, M.
Leto, T. L. *See* Erickson, R. W., Malawista, S. E., Garrett, M. C., Van Blaricom, G., Leto, T. L., and Curnutte, J. T.
Lett-Brown, M. A. *See* Alam, R., Lett-Brown, M. A., Forsythe, P. A., Anderson-Walters, D. J., Kenamore, C., Kormos, C., and Grant, J. A.
Letterio, J. J. *See* Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D.
Leturcq, F. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.
Leung, A. *See* Mohandas, N., Winardi, R., Knowles, D., Leung, A., Parra, M., George, E., Conboy, J., and Chasis, J.
Levitt, M. D. *See* Smith, T., DeMaster, E. G., Furne, J. K., Springfield, J., and Levitt, M. D.
— *See* Strocchi, A., and Levitt, M. D.
Lewis, J. J. *See* Petzel, D., Ganz, M. B., Nestler, E. J., Lewis, J. J., Goldenring, J., Akcicek, F., and Hayslett, J. P.
Lewis, W., Gonzalez, B., Chomyn, A., and Papoian, T. Zidovudine induces molecular, biochemical, and ultrastructural changes in rat skeletal muscle mitochondria. 1354.
Li, P. *See* Anversa, P., Zhang, X., Li, P., and Capasso, J. M.
Liechti-Gallati, S. *See* Fey, M. F., Peter, H.-J., Hinds, H. L., Zimmermann, A., Liechti-Gallati, S., Gerber, H., Studer, H., and Tobler, A.
Lieu, T.-S. *See* Lux, F. A., McCauliffe, D. P., Büttner, D. W., Lucius, R., Capra, J. D., Sontheimer, R. D., and Lieu, T.-S.
Lilja, H. *See* Laurell, M., Christensson, A., Abrahamsson, P.-A., Stenflo, J., and Lilja, H.
Lillienau, J., Schteingart, C. D., and Hofmann, A. F. Physicochemical and physiological properties of cholylsarcosine. A potential replacement detergent for bile acid deficiency states in the small intestine. 420.
Lindner, V. *See* Jawien, A., Bowen-Pope, D. F., Lindner, V., Schwartz, S. M., and Clowes, A. W.
Lipsky, P. E. *See* Hashimoto, K., Whitehurst, C. E., Matsubara, T., Hirohata, K., and Lipsky, P. E.
Liu, L. X., and Weller, P. F. Intravascular filarial parasites inhibit platelet aggregation. Role of parasite-derived prostanoids. 1113.
Lloyd, M., Mevissen, G., Fischer, M., Olsen, W., Goodspeed, D., Genini, M., Boll, W., Semenza, G., and Mantei, N. Regulation of intestinal lactase in adult hypolactasia. 524.
Lo, S. K., Everitt, J., Gu, J., and Malik, A. B. Tumor necrosis factor mediates experimental pulmonary edema by ICAM-1 and CD18-dependent mechanisms. 981.
Loader, J. E. *See* Larsen, G. L., Renz, H., Loader, J. E., Bradley, K. L., and Gelfand, E. W.
Lobb, R. R. *See* Postigo, A. A., Garcia-Vicuña, R., Diaz-Gonzalez, F., Arroyo, A. G., de Landázuri, M. O., Chi-Rosso, G., Lobb, R. R., Laffon, A., and Sánchez-Madrid, F.
Lohmander, L. S. *See* Sandy, J. D., Flannery, C. R., Neame, P. J., and Lohmander, L. S.
Lohse, P. *See* Klein, H.-G., Lohse, P., Pritchard, P. H., Bojanovski, D., Schmidt, H., and Brewer, H. B., Jr.
Lönnroth, P. *See* Jansson, P.-A., Larsson, A., Smith, U., and Lönnroth, P.
Lorell, B. H. *See* Mochizuki, T., Eberli, F. R., Apstein, C. S., and Lorell, B. H.
Lou, Y.-H. *See* Rhim, S. H., Millar, S. E., Robey, F., Luo, A.-M., Lou, Y.-H., Yule, T., Allen, P., Dean, J., and Tung, K. S. K.
Loukides, J. *See* Hurwitz, A., Loukides, J., Ricciarelli, E., Botero, L., Katz, E., McAllister, J. M., Garcia, J. E., Rohan, R., Adashi, E. Y., and Hernandez, E. R.
Lowry, S. F. *See* Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L.
Lu, C. Y. *See* McKay, D. B., Vazquez, M. A., Redline, R. W., and Lu, C. Y.
Lucius, R. *See* Lux, F. A., McCauliffe, D. P., Büttner, D. W., Lucius, R., Capra, J. D., Sontheimer, R. D., and Lieu, T.-S.
Lui, W.-Y. *See* Chiu, J.-H., Kao, H.-L., Wu, L.-H., Chang, H.-M., and Lui, W.-Y.
Luo, A.-M. *See* Rhim, S. H., Millar, S. E., Robey, F., Luo, A.-M., Lou, Y.-H., Yule, T., Allen, P., Dean, J., and Tung, K. S. K.
Luthringer, D. J. *See* Bell, L., Luthringer, D. J., Madri, J. A., and Warren, S. L.
Lux, F. A., McCauliffe, D. P., Büttner, D. W., Lucius, R., Capra, J. D., Sontheimer, R. D., and Lieu, T.-S. Serological cross-reactivity between a human Ro/SS-A autoantigen (calreticulin) and the λRAL-1 antigen of *Onchocerca volvulus*. 1945.

M

Maciag, T. *See* Sano, H., Hla, T., Maier, J. A. M., Crofford, L. J., Case, J. P., Maciag, T., and Wilder, R. L.
MacKintosh, F. R. *See* Zanjani, E. D., Pallavicini, M. G., Ascensao, J. L., Flake, A. W., Langlois, R. G., Reitsma, M., MacKintosh, F. R., Stutes, D., Harrison, M. R., and Tavassoli, M.
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Macmillan, E. *See* McNeilage, L. J., Umapathysivam, K., Macmillan, E., Guidolin, A., Whittingham, S., and Gordon, T.
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Madara, J. L., Parkos, C., Colgan, S., MacLeod, R. J., Nash, S., Matthews, J., Delp, C., and Lencer, W. Cl^- secretion in a model intestinal epithelium induced by a neutrophil-derived secretagogue. 1938.
— *See* Nusrat, A., Delp, C., and Madara, J. L.
Maddox, D. A., Fortin, S. M., Tartini, A., Barnes, W. D., and Gennari, F. J. Effect of acute changes in glomerular filtration rate on Na^+/H^+ exchange in rat renal cortex. 1296.
Maddux, B. A. *See* Milazzo, G., Yip, C. C., Maddux, B. A., Vigneri, R., and Goldfine, I. D.
Madri, J. A. *See* Bell, L., Luthringer, D. J., Madri, J. A., and Warren, S. L.
Maeda, R. *See* Kida, Y., Raz, I., Maeda, R., Nyomba, B. L., Stone, K., Bogardus, C., Sommercorn, J., and Mott, D. M.
Maeda, T. *See* Sumida, T., Yonaha, F., Maeda, T., Tanabe, E., Koike, T., Tomioka, H., and Yoshida, S.
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— *See* Lo, S. K., Everitt, J., Gu, J., and Malik, A. B.
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Mamuya, W. S., and Brecher, P. Fibronectin expression in the normal and hypertrophic rat heart. 392.
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Mao-Quiang, M. *See* Lee, S. H., Elias, P. M., Proksch, E., Menon, G. K., Mao-Quiang, M., and Feingold, K. R.
Marano, M. A. *See* Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L.
Marchisio, P. C. *See* Pellegrini, G., de Luca, M., Orecchia, G., Balzac, F., Cremona, O., Savoia, P., Cancedda, R., and Marchisio, P. C.
Mark, A. L. *See* Sinoway, L. I., Rea, R. F., Mosher, T. J., Smith, M. B., and Mark, A. L.
Marschall, H.-U., Matern, H., Wietholtz, H., Egestad, B., Matern, S., and Sjövall, J. Bile acid *N*-acetylglucosaminidation. In vivo and in vitro evidence for a selective conjugation reaction of 7β-hydroxylated bile acids in humans. 1981.
Marsh, J. D. *See* Ogawa, S., Barnett, J. V., Sen, L., Galper, J. B., Smith, T. W., and Marsh, J. D.
Marshall, B. C. *See* Dupont, G. P., Hueckstedt, T. P., Marshall, B. C., Ryan, U. S., Michael, J. R., and Hoidal, J. R.
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Matern, H. *See* Marschall, H.-U., Matern, H., Wietholtz, H., Egestad, B., Matern, S., and Sjövall, J.
Matern, S. *See* Marschall, H.-U., Matern, H., Wietholtz, H., Egestad, B., Matern, S., and Sjövall, J.
Matsubara, T. *See* Hashimoto, K., Whitehurst, C. E., Matsubara, T., Hirohata, K., and Lipsky, P. E.
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McAllister, J. M. *See* Hurwitz, A., Loukides, J., Ricciarelli, E., Botero, L., Katz, E., McAllister, J. M., Garcia, J. E., Rohan, R., Adashi, E. Y., and Hernandez, E. R.
McCarthy, T. L. *See* Centrella, M., McCarthy, T. L., Kusmik, W. F., and Canalis, E.
McCauliffe, D. P. *See* Lux, F. A., McCauliffe, D. P., Büttner, D. W., Lucius, R., Capra, J. D., Sontheimer, R. D., and Lieu, T.-S.
McClaskey, J. H. *See* Steinfelder, H. J., Radovick, S., Mroczynski, M. A., Hauser, P., McClaskey, J. H., Weintraub, B. D., and Wondisford, F. E.
McCormack, F. X. *See* Zimmerman, P. E., Voelker, D. R., McCormack, F. X., Paulsrud, J. R., and Martin, W. J., II
McCracken, R. *See* Pacifici, R., Basilico, C., Roman, J., Zutter, M. M., Santoro, S. A., and McCracken, R.
McElvaney, N. G. *See* Nakamura, H., Yoshimura, K., McElvaney, N. G., and Crystal, R. G.
McGehee, R. E., Jr. *See* Ron, D., Brasier, A. R., McGehee, R. E., Jr., and Habener, J. F.
McKay, D. B., Vazquez, M. A., Redline, R. W., and Lu, C. Y. Macrophage functions are regulated by murine decidual and tumor extracellular matrices. 134.
McKinley, D. R. *See* Holoshitz, J., Vila, L. M., Keroack, B. J., McKinley, D. R., and Bayne, N. K.
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McMurry, M. P. *See* Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E.
McNeilage, L. J., Umapathysivam, K., Macmillan, E., Guidolin, A., Whittingham, S., and Gordon, T. Definition of a discontinuous immunodominant epitope at the NH_2 terminus of the La/SS-B ribonucleoprotein autoantigen. 1652.
Mecham, R. P. *See* Botney, M. D., Parks, W. C., Crouch, E. C., Stenmark, K., and Mecham, R. P.
Meharchand, J. *See* Chang, H., Messner, H. A., Wang, X.-H., Yee, C., Addy, L., Meharchand, J., and Minden, M. D.
Melchior, R. *See* Bachem, M. G., Meyer, D., Melchior, R., Sell, K.-M., and Gressner, A. M.
Melhem, R. *See* Keim, D., Hailat, N., Melhem, R., Zhu, X. X., Lascu, I., Veron, M., Strahler, J., and Hanash, S. M.
Melillo, R. *See* Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A.
Mendez, H. *See* Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B.
Menezes, J. *See* Gosselin, J., Flamand, L., D'Addario, M., Hiscott, J., and Menezes, J.
Menlove, R. L. *See* Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E.
Menon, G. K. *See* Lee, S. H., Elias, P. M., Proksch, E., Menon, G. K., Mao-Quiang, M., and Feingold, K. R.
Messmer, B. *See* Lenz, H. J., Messmer, B., and Zimmerman, F. G.
Messner, H. A. *See* Chang, H., Messner, H. A., Wang, X.-H., Yee, C., Addy, L., Meharchand, J., and Minden, M. D.
Mestroni, L. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.
Mevissen, G. *See* Lloyd, M., Mevissen, G., Fischer, M., Olsen, W., Goodspeed, D., Genini, M., Boll, W., Semenza, G., and Mantei, N.
Meyer, D. *See* Bachem, M. G., Meyer, D., Melchior, R., Sell, K.-M., and Gressner, A. M.
Mezzanotte, W. S., Tangel, D. J., and White, D. P. Waking genioglossal electromyogram in sleep apnea patients versus normal controls (a neuromuscular compensatory mechanism). 1571.
Michael, J. R. *See* Dupont, G. P., Hueckstedt, T. P., Marshall, B. C., Ryan, U. S., Michael, J. R., and Hoidal, J. R.
Michael, L. H. *See* Youker, K., Smith, C. W., Anderson, D. C., Miller, D., Michael, L. H., Rossen, R. D., and Entman, M. L.
Michon, F. *See* Paoletti, L. C., Kasper, D. L., Michon, F., DiFabio, J., Jennings, H. J., Tosteson, T. D., and Wessels, M. R.
Miedema, F. *See* Schuitemaker, H., Kootstra, N. A., Koppelman, M. H. G. M., Bruisten, S. M., Huisman, H. G., Tersmette, M., and Miedema, F.
Milazzo, G., Yip, C. C., Maddux, B. A., Vigneri, R., and Goldfine, I. D. High-affinity insulin binding to an atypical insulin-like growth factor-I receptor in human breast cancer cells. 899.
Milewicz, D. M., Pyeritz, R. E., Crawford, E. S., and Byers, P. H. Marfan syndrome: defective synthesis, secretion, and extracellular matrix formation of fibrillin by cultured dermal fibroblasts. 79.
Millar, S. E. *See* Rhim, S. H., Millar, S. E., Robey, F., Luo, A.-M., Lou, Y.-H., Yule, T., Allen, P., Dean, J., and Tung, K. S. K.
Miller, D. *See* Youker, K., Smith, C. W., Anderson, D. C., Miller, D., Michael, L. H., Rossen, R. D., and Entman, M. L.
Miller, R. T. *See* Horie, S., Moe, O., Miller, R. T., and Alpern, R. J.
Minden, M. D. *See* Chang, H., Messner, H. A., Wang, X.-H., Yee, C., Addy, L., Meharchand, J., and Minden, M. D.
Minna, J. D. *See* Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D.
Minobe, W. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.

Mirando, W. S., Shiratsuchi, H., Tubesing, K., Toba, H., Ellner, J. J., and Elmets, C. A. Ultraviolet-irradiated monocytes efficiently inhibit the intracellular replication of mycobacterium avium intracellulare. 1282.
Mitchell, L. *See* Andrew, M., Mitchell, L., Berry, L., Paes, B., Delorme, M., Ofosu, F., Burrows, R., and Khambalia, B.
Mitsudomi, T. *See* Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D.
Miyata, S., and Monnier, V. Immunohistochemical detection of advanced glycosylation end products in diabetic tissues using monoclonal antibody to pyrraline. 1102.
Mochizuki, T., Eberli, F. R., Apstein, C. S., and Lorell, B. H. Exacerbation of ischemic dysfunction by angiotensin II in red cell–perfused rabbit hearts. Effects on coronary flow contractility, and high-energy phosphate metabolism. 490.
Moe, O. *See* Horie, S., Moe, O., Miller, R. T., and Alpern, R. J.
Mohandas, N., Winardi, R., Knowles, D., Leung, A., Parra, M., George, E., Conboy, J., and Chasis, J. Molecular basis for membrane rigidity of hereditary ovalocytosis. A novel mechanism involving the cytoplasmic domain of band 3. 686.
— *See* Coller, B. S., Springer, K. T., Beer, J. H., Mohandas, N., Scudder, L. E., Norton, K. J., and West, S. M.
Moldawer, L. L. *See* Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L.
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— *See* Perreault, C. L., Shannon, R. P., Komamura, K., Vatner, S. F., and Morgan, J. P.
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Moser, A. H. *See* Adi, S., Pollock, A. S., Shigenaga, J. K., Moser, A. H., Feingold, K. R., and Grunfeld, C.
Mosher, T. J. *See* Sinoway, L. I., Rea, R. F., Mosher, T. J., Smith, M. B., and Mark, A. L.
Mott, D. M. *See* Kida, Y., Raz, I., Maeda, R., Nyomba, B. L., Stone, K., Bogardus, C., Sommercorn, J., and Mott, D. M.
Mroczynski, M. A. *See* Steinfelder, H. J., Radovick, S., Mroczynski, M. A., Hauser, P., McClaskey, J. H., Weintraub, B. D., and Wondisford, F. E.
Mueller, B. M. *See* Felding-Habermann, B., Mueller, B. M., Romerdahl, C. A., and Cheresh, D. A.
Murphy, P. A. *See* Sierra-Honigmann, M. R., and Murphy, P. A.
Murray, J. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.
Musch, M. W. *See* Tamai, H., Gaginella, T. S., Kachur, J. F., Musch, M. W., and Chang, E. B.
Myers, C. E. *See* Fang, W.-G., Pirnia, F., Bang, Y.-J., Myers, C. E., and Trepel, J. B.

N

Nadal-Ginard, B. *See* Takahashi, T., Schunkert, H., Isoyama, S., Wei, J. Y., Nadal-Ginard, B., Grossman, W., and Izumo, S.
Nagami, G. T. Effect of angiotensin II on ammonia production and secretion by mouse proximal tubules perfused in vitro. 925.
Nakamura, H., Yoshimura, K., McElvaney, N. G., and Crystal, R. G. Neutrophil elastase in respiratory epithelial lining fluid of individuals with cystic fibrosis induces interleukin-8 gene expression in a human bronchial epithelial cell line. 1478.
Nakamura, Y. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.
Namork, E. *See* Brandtzaeg, P., Bryn, K., Kierulf, P., Øvstebø, R., Namork, E., Aase, B., and Jantzen, E.
Naoe, T. *See* Kiyoi, H., Naoe, T., Horibe, K., and Ohno, R.
Nardi, M. *See* Karpatkin, S., and Nardi, M.
Nash, S. *See* Madara, J. L., Parkos, C., Colgan, S., MacLeod, R. J., Nash, S., Matthews, J., Delp, C., and Lencer, W.
Nau, M. M. *See* Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D.
Neame, P. J. *See* Sandy, J. D., Flannery, C. R., Neame, P. J., and Lohmander, L. S.
Neilson, E. G. *See* Haverty, T. P., Kelly, C. J., Hoyer, J. R., Alvarez, R., and Neilson, E. G.
Nelken, N. A. *See* Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Charo, I. F., Nelken, N. A., Esmon, N., Esmon, C. T., and Coughlin, S. R.
Nesbitt, T., Coffman, T. M., Griffiths, R., and Drezner, M. K. Crosstransplantation of kidneys in normal and *Hyp* mice. Evidence that the *Hyp* mouse phenotype is unrelated to an intrinsic renal defect. 1453.
Nestler, E. J. *See* Petzel, D., Ganz, M. B., Nestler, E. J., Lewis, J. J., Goldenring, J., Akcicek, F., and Hayslett, J. P.
Neuschwander-Tetri, B. A., Ferrell, L. D., Sukhabote, R. J., and Grendell, J. H. Glutathione monoethyl ester ameliorates caerulein-induced pancreatitis in the mouse. 109.
Nguyen, Q., Mort, J. S., and Roughley, P. J. Preferential mRNA expression of prostromelysin relative to procollagenase and in situ localization in human articular cartilage. 1189.
Nicholson, L. V. B. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.
Niedermühlbichler, M. *See* Wiedermann, C. J., Niedermühlbichler, M., and Braunsteiner, H.
Nishio, K., Sugimoto, Y., Fujiwara, Y., Ohmori, T., Morikage, T., Takeda, Y., Ohata, M., and Saijo, N. Phospholipase C–mediated hydrolysis of phosphatidylcholine is activated by *cis*-diamminedichloroplatinum(II). 1622.
Nishiyasu, M. *See* Schweinle, J. E., and Nishiyasu, M.
Noguchi, T. *See* Ishida, N., Fujita, H., Fukuda, Y., Noguchi, T., Doss, M., Kappas, A., and Sassa, S.
Nordenskjöld, M. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.
Norton, K. J. *See* Coller, B. S., Springer, K. T., Beer, J. H., Mohandas, N., Scudder, L. E., Norton, K. J., and West, S. M.
Nugent, M. A. *See* Edelman, E. R., Nugent, M. A., Smith, L. T., and Karnovsky, M. J.
Nurden, A. T. *See* Lanza, F., Stierlé, A., Fournier, D., Morales, M., André, G., Nurden, A. T., and Cazenave, J.-P.
Nurjhan, N., Consoli, A., and Gerich, J. Increased lipolysis and its consequences on gluconeogenesis in non–insulin-dependent diabetes mellitus. 169.
Nusrat, A., Delp, C., and Madara, J. L. Intestinal epithelial restitution. Characterization of a cell culture model and mapping of cytoskeletal elements in migrating cells. 1501.
Nutman, T. B. *See* King, C. L., Kumaraswami, V., Poindexter, R. W., Kumari, S., Jayaraman, K., Alling, D. W., Ottesen, E. A., and Nutman, T. B.
Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H. Glucose free fatty acid cycle operates in human heart and skeletal muscle in vivo. 1767.
Nyomba, B. L. *See* Kida, Y., Raz, I., Maeda, R., Nyomba, B. L., Stone, K., Bogardus, C., Sommercorn, J., and Mott, D. M.

O

Öberg, K. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.
O'Brien, K. D., Gordon, D., Deeb, S., Ferguson, M., and Chait, A. Lipoprotein lipase is synthesized by macrophage-derived foam cells in human coronary atherosclerotic plaques. 1544.

O'Brien, W. A. *See* Rich, E. A., Chen, I. S. Y., Zack, J. A., Leonard, M. L., and O'Brien, W. A.
Ofosu, F. *See* Andrew, M., Mitchell, L., Berry, L., Paes, B., Delorme, M., Ofosu, F., Burrows, R., and Khambalia, B.
O'Garra, A. *See* Rugo, H. S., O'Hanley, P., Bishop, A. G., Pearce, M. K., Abrams, J. S., Howard, M., and O'Garra, A.
Ogata, E. *See* Okazaki, T., Ando, K., Igarashi, T., Ogata, E., and Fujita, T.
Ogawa, S., Barnett, J. V., Sen, L., Galper, J. B., Smith, T. W., and Marsh, J. D. Direct contact between sympathetic neurons and rat cardiac myocytes in vitro increases expression of functional calcium channels. 1085.
O'Hanley, P. *See* Rugo, H. S., O'Hanley, P., Bishop, A. G., Pearce, M. K., Abrams, J. S., Howard, M., and O'Garra, A.
Ohata, M. *See* Nishio, K., Sugimoto, Y., Fujiwara, Y., Ohmori, T., Morikage, T., Takeda, Y., Ohata, M., and Saijo, N.
Ohmori, T. *See* Nishio, K., Sugimoto, Y., Fujiwara, Y., Ohmori, T., Morikage, T., Takeda, Y., Ohata, M., and Saijo, N.
Ohno, I., Lea, R. G., Flanders, K. C., Clark, D. A., Banwatt, D., Dolovich, J., Denburg, J., Harley, C. B., Gauldie, J., and Jordana, M. Eosinophils in chronically inflamed human upper airway tissues express transforming growth factor β1 gene (TGFβ1). 1662.
Ohno, R. *See* Kiyoi, H., Naoe, T., Horibe, K., and Ohno, R.
Ohsaki, Y. *See* Roodman, G. D., Kurihara, N., Ohsaki, Y., Kukita, A., Hosking, D., Demulder, A., Smith, J. F., and Singer, F. R.
Ohto, M. *See* Ehata, T., Omata, M., Yokosuka, O., Hosoda, K., and Ohto, M.
Ohyanagi, H. *See* Ueda, T., Takeyama, Y., Kaneda, K., Adachi, M., Ohyanagi, H., and Saitoh, Y.
Ojamaa, K. *See* Klein, I., Ojamaa, K., Samarel, A. M., Welikson, R., and Hong, C.
Okazaki, T., Ando, K., Igarashi, T., Ogata, E., and Fujita, T. Conserved mechanism of negative gene regulation by extracellular calcium. Parathyroid hormone gene versus atrial natriuretic polypeptide gene. 1268.
O'Keefe, E. J. *See* Oursler, J. R., Labib, R. S., Ariss-Abdo, L., Burke, T., O'Keefe, E. J., and Anhalt, G. J.
Olansky, L., Welling, C., Giddings, S., Adler, S., Bourey, R., Dowse, G., Serjeantson, S., Zimmet, P., and Permutt, M. A. A variant insulin promoter in non–insulin-dependent diabetes mellitus. 1596.
Oliver, J. A. *See* Landry, D. W., and Oliver, J. A.
Olsen, W. *See* Lloyd, M., Mevissen, G., Fischer, M., Olsen, W., Goodspeed, D., Genini, M., Boll, W., Semenza, G., and Mantei, N.
Olszewski, J. *See* Sparrow, C. P., Doebber, T. W., Olszewski, J., Wu, M. S., Ventre, J., Stevens, K. A., and Chao, Y.-s.
Omata, M. *See* Ehata, T., Omata, M., Yokosuka, O., Hosoda, K., and Ohto, M.
Orecchia, G. *See* Pellegrini, G., de Luca, M., Orecchia, G., Balzac, F., Cremona, O., Savoia, P., Cancedda, R., and Marchisio, P. C.
Orii, T. *See* Fukao, T., Yamaguchi, S., Orii, T., Schutgens, R. B. H., Osumi, T., and Hashimoto, T.
Orloff, D. G. *See* Eastman, R. C., Carson, R. E., Orloff, D. G., Cochran, C. S., Perdue, J. F., Rechler, M. M., Lanau, F., Roberts, C. T., Jr., Shapiro, J., Roth, J., and LeRoith, D.
Ostedgaard, L. S. *See* Denning, G. M., Ostedgaard, L. S., Cheng, S. H., Smith, A. E., and Welsh, M. J.
Osumi, T. *See* Fukao, T., Yamaguchi, S., Orii, T., Schutgens, R. B. H., Osumi, T., and Hashimoto, T.
Oswald, B. *See* Quarfordt, S. H., Landis, B., Cucchiaro, G., Yamaguchi, Y., and Oswald, B.
Ottesen, E. A. *See* King, C. L., Kumaraswami, V., Poindexter, R. W., Kumari, S., Jayaraman, K., Alling, D. W., Ottesen, E. A., and Nutman, T. B.
Otuechere, G. *See* Gunning, M. E., Brady, H. R., Otuechere, G., Brenner, B. M., and Zeidel, M. L.
Oursler, J. R., Labib, R. S., Ariss-Abdo, L., Burke, T., O'Keefe, E. J., and Anhalt, G. J. Human autoantibodies against desmoplakins in paraneoplastic pemphigus. 1775.
Ouwehand, W. H. *See* Kuijpers, R. W. A. M., Faber, N. M., Cuypers, H. Th. M., Ouwehand, W. H., and Von dem Borne, A. E. G. Kr.
Øvstebø, R. *See* Brandtzaeg, P., Bryn, K., Kierulf, P., Øvstebø, R., Namork, E., Aase, B., and Jantzen, E.
Owerbach, D. *See* Reveille, J. D., Owerbach, D., Goldstein, R., Moreda, R., Isern, R. A., and Arnett, F. C.
Oyaizu, N., Chirmule, N., and Pahwa, S. Role of CD4 molecule in the induction of interleukin 2 and interleukin 2 receptor in class II. Major histocompatibility complex–restricted antigen-specific T helper clones. T cell receptor/CD3 complex transmits CD4-dependent and CD4-independent signals. 1807.

P

Pacifici, R., Basilico, C., Roman, J., Zutter, M. M., Santoro, S. A., and McCracken, R. Collagen-induced release of interleukin 1 from human blood mononuclear cells. Potentiation by fibronectin binding to the $\alpha_5\beta_1$ integrin. 61.
Paes, B. *See* Andrew, M., Mitchell, L., Berry, L., Paes, B., Delorme, M., Ofosu, F., Burrows, R., and Khambalia, B.
Pahwa, S. *See* Oyaizu, N., Chirmule, N., and Pahwa, S.
Palek, J. *See* Gallagher, P. G., Tse, W. T., Coetzer, T., Lecomte, M.-C., Garbarz, M., Zarkowsky, H. S., Baruchel, A., Ballas, S. K., Dhermy, D., Palek, J., and Forget, B. G.
Palermos, J. *See* Volanakis, J. E., Zhu, Z.-B., Schaffer, F. M., Macon, K. J., Palermos, J., Barger, B. O., Go, R., Campbell, R. D., Schroeder, H. W., Jr., and Cooper, M. D.
Pallavicini, M. G. *See* Zanjani, E. D., Pallavicini, M. G., Ascensao, J. L., Flake, A. W., Langlois, R. G., Reitsma, M., MacKintosh, F. R., Stutes, D., Harrison, M. R., and Tavassoli, M.
Panduro, A. *See* Pietrangelo, A., Panduro, A., Roy Chowdhury, J., and Shafritz, D. A.
Paoletti, L. C., Kasper, D. L., Michon, F., DiFabio, J., Jennings, H. J., Tosteson, T. D., and Wessels, M. R. Effects of chain length on the immunogenicity in rabbits of group B *Streptococcus* type III oligosaccharide-tetanus toxoid conjugates. 203.
Papoian, T. *See* Lewis, W., Gonzalez, B., Chomyn, A., and Papoian, T.
Parente, M. G. *See* Ryynänen, J., Sollberg, S., Parente, M. G., Chung, L. C., Christiano, A. M., and Uitto, J.
Parhofer, K. G., Barrett, P. H. R., Bier, D. M., and Schonfeld, G. Lipoproteins containing the truncated apolipoprotein, Apo B-89, are cleared from human plasma more rapidly than Apo B-100–containing lipoproteins in vivo. 1931.
Parkos, C. *See* Madara, J. L., Parkos, C., Colgan, S., MacLeod, R. J., Nash, S., Matthews, J., Delp, C., and Lencer, W.
Parks, W. C. *See* Botney, M. D., Parks, W. C., Crouch, E. C., Stenmark, K., and Mecham, R. P.
Parra, M. *See* Mohandas, N., Winardi, R., Knowles, D., Leung, A., Parra, M., George, E., Conboy, J., and Chasis, J.
Parrot, A. *See* Hadida, F., Parrot, A., Kieny, M.-P., Sadat-Sowti, B., Mayaud, C., Debre, P., and Autran, B.
Parthasarathy, S. Evidence for an additional intracellular site of action of probucol in the prevention of oxidative modification of low density lipoprotein. Use of a new water-soluble probucol derivative. 1618.
Partridge, C. A. *See* Ishii, Y., Partridge, C. A., Del Vecchio, P. J., and Malik, A. B.
Pasipoularides, A. *See* Komamura, K., Shannon, R. P., Pasipoularides, A., Ihara, T., Lader, A. S., Patrick, T. A., Bishop, S. P., and Vatner, S. F.
Passeri, G. *See* Girasole, G., Jilka, R. L., Passeri, G., Boswell, S., Boder, G., Williams, D. C., and Manolagas, S. C.
Pastoriza-Munoz, E., Harrington, R. M., and Graber, M. L. Parathyroid hormone decreases HCO_3 reabsorption in the rat proximal tubule by stimulating phosphatidylinositol metabolism and inhibiting base exit. 1485.
Patrick, T. A. *See* Komamura, K., Shannon, R. P., Pasipoularides, A., Ihara, T., Lader, A. S., Patrick, T. A., Bishop, S. P., and Vatner, S. F.
Paulais, M., and Turner, R. J. β-adrenergic upregulation of the Na^+-K^+-$2Cl^-$ cotransporter in rat parotid acinar cells. 1142.
Pauli, B. U. *See* Zhu, D., Cheng, C.-F., and Pauli, B. U.
Paulin, C. *See* Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A.
Paulsrud, J. R. *See* Zimmerman, P. E., Voelker, D. R., McCormack, F. X., Paulsrud, J. R., and Martin, W. J., II
Payen, D. *See* Bernard, C., Szekely, B., Philip, I., Wollman, E., Payen, D., and Tedgui, A.

Pearce, M. K. *See* Rugo, H. S., O'Hanley, P., Bishop, A. G., Pearce, M. K., Abrams, J. S., Howard, M., and O'Garra, A.

Pedersen, O., Kahn, C. R., and Kahn, B. B. Divergent regulation of the glut 1 and glut 4 glucose transporters in isolated adipocytes from Zucker rats. 1964.

Peix, J. L. *See* Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A.

Pellegrini, G., de Luca, M., Orecchia, G., Balzac, F., Cremona, O., Savoia, P., Cancedda, R., and Marchisio, P. C. Expression, topography, and function of integrin receptors are severely altered in keratinocytes from involved and uninvolved psoriatic skin. 1783.

Perdue, J. F. *See* Eastman, R. C., Carson, R. E., Orloff, D. G., Cochran, C. S., Perdue, J. F., Rechler, M. M., Lanau, F., Roberts, C. T., Jr., Shapiro, J., Roth, J., and LeRoith, D.

Perlmutter, D. H. *See* Hafeez, W., Ciliberto, G., and Perlmutter, D. H.

Permutt, M. A. *See* Koranyi, L., James, D. E., Kraegen, E. W., and Permutt, M. A.

— *See* Olansky, L., Welling, C., Giddings, S., Adler, S., Bourey, R., Dowse, G., Serjeantson, S., Zimmet, P., and Permutt, M. A.

Pernia, S. D. *See* Carney, D. H., Mann, R., Redin, W. R., Pernia, S. D., Berry, D., Heggers, J. P., Hayward, P. G., Robson, M. C., Christie, J., Annable, C., Fenton, J. W., II, and Glenn, K. C.

Perreault, C. L., Shannon, R. P., Komamura, K., Vatner, S. F., and Morgan, J. P. Abnormalities in intracellular calcium regulation and contractile function in myocardium from dogs with pacing-induced heart failure. 932.

Perriello, G. *See* Fanelli, C. G., de Feo, P., Porcellati, F., Perriello, G., Torlone, E., Santeusanio, F., Brunetti, P., and Bolli, G. B.

Peter, H.-J. *See* Fey, M. F., Peter, H.-J., Hinds, H. L., Zimmermann, A., Liechti-Gallati, S., Gerber, H., Studer, H., and Tobler, A.

Peterson, P. K., Gekker, G., Chao, C. C., Hu, S., Edelman, C., Balfour, H. H., Jr., and Verhoef, J. Human cytomegalovirus-stimulated peripheral blood mononuclear cells induce HIV-1 replication via a tumor necrosis factor–α–mediated mechanism. 574.

Petzel, D., Ganz, M. B., Nestler, E. J., Lewis, J. J., Goldenring, J., Akcicek, F., and Hayslett, J. P. Correlates of aldosterone-induced increases in Ca_i^{2+} and Isc suggest that Ca_i^{2+} is the second messenger for stimulation of apical membrane conductance. 150.

Philip, I. *See* Bernard, C., Szekely, B., Philip, I., Wollman, E., Payen, D., and Tedgui, A.

Piantadosi, C. A. *See* Brown, S. D., and Piantadosi, C. A.

Pichon, F. *See* Féray, C., Samuel, D., Thiers, V., Gigou, M., Pichon, F., Bismuth, A., Reynes, M., Maisonneuve, P., Bismuth, H., and Bréchot, C.

Pierotti, M. A. *See* Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A.

Pietrangelo, A., Panduro, A., Roy Chowdhury, J., and Shafritz, D. A. Albumin gene expression is down-regulated by albumin or macromolecule infusion in the rat. 1755.

Pipeleers, D. *See* Kiekens, R., Veld, P. In't, Mahler, T., Schuit, F., Van De Winkel, M., and Pipeleers, D.

Pirnia, F. *See* Fang, W.-G., Pirnia, F., Bang, Y.-J., Myers, C. E., and Trepel, J. B.

Pi-Sunyer, F. X. *See* Segal, K. R., Albu, J., Chun, A., Edano, A., Legaspi, B., and Pi-Sunyer, F. X.

Plante, G. E., Bissonnette, M., Sirois, M. G., Regoli, D., and Sirois, P. Renal permeability alteration precedes hypertension and involves bradykinin in the spontaneously hypertensive rat. 2030.

Poindexter, R. W. *See* King, C. L., Kumaraswami, V., Poindexter, R. W., Kumari, S., Jayaraman, K., Alling, D. W., Ottesen, E. A., and Nutman, T. B.

Pollock, A. S. *See* Adi, S., Pollock, A. S., Shigenaga, J. K., Moser, A. H., Feingold, K. R., and Grunfeld, C.

Polonsky, K. S. *See* Yano, H., Kitano, N., Morimoto, M., Polonsky, K. S., Imura, H., and Seino, Y.

Poplack, D. G. *See* Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D.

Porcellati, F. *See* Fanelli, C. G., de Feo, P., Porcellati, F., Perriello, G., Torlone, E., Santeusanio, F., Brunetti, P., and Bolli, G. B.

Pories, W. P. *See* Friedman, J. E., Dohm, G. L., Leggett-Frazier, N., Elton, C. W., Tapscott, E. B., Pories, W. P., and Caro, J. F.

Porzsolt, F. *See* Digel, W., Porzsolt, F., Schmid, M., Herrmann, F., Lesslauer, W., and Brockhaus, M.

Postigo, A. A., Garcia-Vicuña, R., Diaz-Gonzalez, F., Arroyo, A. G., de Landázuri, M. O., Chi-Rosso, G., Lobb, R. R., Laffon, A., and Sánchez-Madrid, F. Increased binding of synovial T lymphocytes from rheumatoid arthritis to endothelial-leukocyte adhesion molecule-1 (ELAM-1) and vascular cell adhesion molecule-1 (VCAM-1). 1445.

Poulos, A. *See* Kumaratilake, L. M., Robinson, B. S., Ferrante, A., and Poulos, A.

Povey, S. *See* Turner, N., Mason, P. J., Brown, R., Fox, M., Povey, S., Rees, A., and Pusey, C. D.

Powell, D. W. *See* Berschneider, H. M., and Powell, D. W.

Prince, A. *See* Cacalano, G., Kays, M., Saiman, L., and Prince, A.

Pritchard, P. H. *See* Klein, H.-G., Lohse, P., Pritchard, P. H., Bojanovski, D., Schmidt, H., and Brewer, H. B., Jr.

Proksch, E. *See* Lee, S. H., Elias, P. M., Proksch, E., Menon, G. K., Mao-Quiang, M., and Feingold, K. R.

Prossnitz, V. *See* Bokoch, G. M., and Prossnitz, V.

Puffenberger, E. G. *See* Dietz, H. C., Pyeritz, R. E., Puffenberger, E. G., Kendzior, R. J., Jr., Corson, G. M., Maslen, C. L., Sakai, L. Y., Francomano, C. A., and Cutting, G. R.

Pusey, C. D. *See* Turner, N., Mason, P. J., Brown, R., Fox, M., Povey, S., Rees, A., and Pusey, C. D.

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Rabinovici, R., Sofronski, M. D., Renz, J. F., Hillegas, L. M., Esser, K. M., Vernick, J., and Feuerstein, G. Platelet activating factor mediates interleukin-2-induced lung injury in the rat. 1669.

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Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J. Are cysteine-rich and COOH-terminal domains of dystrophin critical for sarcolemmal localization?. 712.

Rechler, M. M. *See* Eastman, R. C., Carson, R. E., Orloff, D. G., Cochran, C. S., Perdue, J. F., Rechler, M. M., Lanau, F., Roberts, C. T., Jr., Shapiro, J., Roth, J., and LeRoith, D.

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Reveille, J. D., Owerbach, D., Goldstein, R., Moreda, R., Isern, R. A., and Arnett, F. C. Association of polar amino acids at position 26 of the HLA-DQB1 first domain with the anticentromere autoantibody response in systemic sclerosis (scleroderma). 1208.

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Rhim, S. H., Millar, S. E., Robey, F., Luo, A.-M., Lou, Y.-H., Yule, T., Allen, P., Dean, J., and Tung, K. S. K. Autoimmune disease of the ovary induced by a ZP3 peptide from the mouse zona pellucida. 28.

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Ron, D., Brasier, A. R., McGehee, R. E., Jr., and Habener, J. F. Tumor necrosis factor-induced reversal of adipocytic phenotype of 3T3-L1 cells is preceded by a loss of nuclear CCAAT/enhancer binding protein (C/EBP). 223.

Roodman, G. D., Kurihara, N., Ohsaki, Y., Kukita, A., Hosking, D., Demulder, A., Smith, J. F., and Singer, F. R. Interleukin 6. A potential autocrine/paracrine factor in Paget's disease of bone. 46.

Rosenfeld, R. G. *See* Bernstein, D., Jasper, J. R., Rosenfeld, R. G., and Hintz, R. L.

Rosenfeld, S. J., Yoshimoto, K., Kajigaya, S., Anderson, S., Young, N. S., Field, A., Warrener, P., Bansal, G., and Collett, M. S. Unique region of the minor capsid protein of human parvovirus B19 is exposed on the virion surface. 2023.

Rossen, R. D. *See* Youker, K., Smith, C. W., Anderson, D. C., Miller, D., Michael, L. H., Rossen, R. D., and Entman, M. L.

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Rothman, D. L., Shulman, R. G., and Shulman, G. I. ^{31}P nuclear magnetic resonance measurements of muscle glucose-6-phosphate. Evidence for reduced insulin-dependent muscle glucose transport of phosphorylation activity in non–insulin-dependent diabetes mellitus. 1069.

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Rugo, H. S., O'Hanley, P., Bishop, A. G., Pearce, M. K., Abrams, J. S., Howard, M., and O'Garra, A. Local cytokine production in a murine model of *Escherichia coli* pyelonephritis. 1032.

Ruotsalainen, U. *See* Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H.

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Russell, R. R., III, and Taegtmeyer, H. Coenzyme A sequestration in rat hearts oxidizing ketone bodies. 968.

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Ryynänen, J., Sollberg, S., Parente, M. G., Chung, L. C., Christiano, A. M., and Uitto, J. Type VII collagen gene expression by cultured human cells and in fetal skin. Abundant mRNA and protein levels in epidermal keratinocytes. 163.

— *See* Ryynänen, M., Ryynänen, J., Sollberg, S., Iozzo, R. V., Knowlton, R. G., and Uitto, J.

Ryynänen, M., Ryynänen, J., Sollberg, S., Iozzo, R. V., Knowlton, R. G., and Uitto, J. Genetic linkage of type VII collagen (COL7A1) to dominant dystrophic epidermolysis bullosa in families with abnormal anchoring fibrils. 974.

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Sajjan, U., Reisman, J., Doig, P., Irvin, R. T., Forstner, G., and Forstner, J. Binding of nonmucoid *Pseudomonas aeruginosa* to normal human intestinal mucin and respiratory mucin from patients with cystic fibrosis. 657.

Sajjan, U. S., Corey, M., Karmali, M. A., and Forstner, J. F. Binding of *Pseudomonas cepacia* to normal human intestinal mucin and respiratory mucin from patients with cystic fibrosis. 648.

Sakai, L. Y. *See* Dietz, H. C., Pyeritz, R. E., Puffenberger, E. G., Kendzior, R. J., Jr., Corson, G. M., Maslen, C. L., Sakai, L. Y., Francomano, C. A., and Cutting, G. R.

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Salmon, J. E., Edberg, J. C., Brogle, N. L., and Kimberly, R. P. Allelic polymorphisms of human Fcγ receptor IIA and Fcγ receptor IIIB. Independent mechanisms for differences in human phagocyte function. 1274.

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Sandholzer, Ch., Boerwinkle, E., Saha, N., Tong, M. C., and Utermann, G. Apolipoprotein(a) phenotypes, Lp(a) concentration and plasma lipid levels in relation to coronary heart disease in a Chinese population: evidence for the role of the apo(a) gene in coronary heart disease. 1040.

Sandy, J. D., Flannery, C. R., Neame, P. J., and Lohmander, L. S. The structure of aggrecan fragments in human synovial fluid. Evidence for the involvement in osteoarthritis of a novel proteinase which cleaves the Glu 373-Ala 374 bond of the interglobular domain. 1512.

Sano, H., Hla, T., Maier, J. A. M., Crofford, L. J., Case, J. P., Macing, T., and Wilder, R. L. In vivo cyclooxygenase expression in synovial tissues of patients with rheumatoid arthritis and osteoarthritis and rats with adjuvant and streptococcal cell wall arthritis. 97.

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Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A. Ret oncogene activation in human thyroid neoplasms is restricted to the papillary cancer subtype. 1517.

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Schuitemaker, H., Kootstra, N. A., Koppelman, M. H. G. M., Bruisten, S. M., Huisman, H. G., Tersmette, M., and Miedema, F. Proliferation-dependent HIV-1 infection of monocytes occurs during differentiation into macrophages. 1154.

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Schwaber, J. Evidence for failure of V(D)J recombination in bone marrow pre-B cells from X-linked agammaglobulinemia. 2053.

—, Malone, B. Germ line transcription of the immunoglobulin heavy chain locus directs production of μ chain without VDJ. 2046.

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Schweinle, J. E., and Nishiyasu, M. Sub-minimal inhibitory concentrations of cefmetazole enhance serum bactericidal activity in vitro by amplifying poly-C9 deposition. 1198.

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Seaquist, E. R., and Robertson, R. P. Effects of hemipancreatectomy on pancreatic alpha and beta cell function in healthy human donors. 1761.

Segal, K. R., Albu, J., Chun, A., Edano, A., Legaspi, B., and Pi-Sunyer, F. X. Independent effects of obesity and insulin resistance on postprandial thermogenesis in men. 824.

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Shannon, R. P. *See* Komamura, K., Shannon, R. P., Pasipoularides, A., Ihara, T., Lader, A. S., Patrick, T. A., Bishop, S. P., and Vatner, S. F.
— *See* Perreault, C. L., Shannon, R. P., Komamura, K., Vatner, S. F., and Morgan, J. P.
Shapiro, J. *See* Eastman, R. C., Carson, R. E., Orloff, D. G., Cochran, C. S., Perdue, J. F., Rechler, M. M., Lanau, F., Roberts, C. T., Jr., Shapiro, J., Roth, J., and LeRoith, D.
Shapiro, J. R., Stover, M. L., Burn, V. E., McKinstry, M. B., Burshell, A. L., Chipman, S. D., and Rowe, D. W. An osteopenic nonfracture syndrome with features of mild osteogenesis imperfecta associated with the substitution of a cysteine for glycine at triple helix position 43 in the proα1(I) chain of type I collagen. 567.
Shepherd, J. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.
Sheppard, D. *See* Boylan, A. M., Rüegg, C., Kim, K. J., Hébert, C. A., Hoeffel, J. M., Pytela, R., Sheppard, D., Goldstein, I. M., and Broaddus, V. C.
Shigenaga, J. K. *See* Adi, S., Pollock, A. S., Shigenaga, J. K., Moser, A. H., Feingold, K. R., and Grunfeld, C.
Shimada, M. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.
Shimano, H. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.
Shiomi, M. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.
Shirai, A., Cosentino, M., Leitman-Klinman, S. F., and Klinman, D. M. Human immunodeficiency virus infection induces both polyclonal and virus-specific B cell activation. 561.
Shiratsuchi, H. *See* Mirando, W. S., Shiratsuchi, H., Tubesing, K., Toba, H., Ellner, J. J., and Elmets, C. A.
Shoenfeld, Y. *See* Bakimer, R., Fishman, P., Blank, M., Sredni, B., Djaldetti, M., and Shoenfeld, Y.
Shoji, T. *See* Takagi, A., Ikeda, Y., Tsutsumi, Z., Shoji, T., and Yamamoto, A.
Shulman, G. I. *See* Rothman, D. L., Shulman, R. G., and Shulman, G. I.
Shulman, R. G. *See* Rothman, D. L., Shulman, R. G., and Shulman, G. I.
Sidhu, A., Vachvanichsanong, P., Jose, P. A., and Felder, R. A. Persistent defective coupling of dopamine-1 receptors to G proteins after solubilization from kidney proximal tubules of hypertensive rats. 789.
Sierra-Honigmann, M. R., and Murphy, P. A. T cell receptor-independent immunosuppression induced by dexamethasone in murine T helper cells. 556.
Silva, R. H. *See* Jaffa, A. A., Vio, C. P., Silva, R. H., Vavrek, R. J., Stewart, J. M., Rust, P. F., and Mayfield, R. K.
Silverman, E. K. *See* Weitz, J. I., Silverman, E. K., Thong, B., and Campbell, E. J.
Simon, D. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.
Singer, F. R. *See* Roodman, G. D., Kurihara, N., Ohsaki, Y., Kukita, A., Hosking, D., Demulder, A., Smith, J. F., and Singer, F. R.
Singer, H. A. *See* D'Angelo, E. K. Gilbert, Singer, H. A., and Rembold, C. M.
Sinigaglia, F. *See* Romagnoli, P., Spinas, G. A., and Sinigaglia, F.
Sinoway, L. I., Rea, R. F., Mosher, T. J., Smith, M. B., and Mark, A. L. Hydrogen ion concentration is not the sole determinant of muscle metaboreceptor responses in humans. 1875.
Sirois, M. G. *See* Plante, G. E., Bissonnette, M., Sirois, M. G., Regoli, D., and Sirois, P.
Sirois, P. *See* Plante, G. E., Bissonnette, M., Sirois, M. G., Regoli, D., and Sirois, P.
Sjövall, J. *See* Marschall, H.-U., Matern, H., Wietholtz, H., Egestad, B., Matern, S., and Sjövall, J.
Skerl, L. *See* Bristow, M. R., Minobe, W., Rasmussen, R., Larrabee, P., Skerl, L., Klein, J. W., Anderson, F. L., Murray, J., Mestroni, L., Karwande, S. V., Fowler, M., and Ginsburg, R.
Skogseid, B. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.
Smith, A. E. *See* Denning, G. M., Ostedgaard, L. S., Cheng, S. H., Smith, A. E., and Welsh, M. J.
Smith, C. W. *See* Youker, K., Smith, C. W., Anderson, D. C., Miller, D., Michael, L. H., Rossen, R. D., and Entman, M. L.
Smith, H. C. *See* Sparks, J. D., Zolfaghari, R., Sparks, C. E., Smith, H. C., and Fisher, E. A.
Smith, J. D., Brinton, E. A., and Breslow, J. L. Polymorphism in the human apolipoprotein A-I gene promoter region. Association of the minor allele with decreased production rate in vivo and promoter activity in vitro. 1796.
Smith, J. F. *See* Roodman, G. D., Kurihara, N., Ohsaki, Y., Kukita, A., Hosking, D., Demulder, A., Smith, J. F., and Singer, F. R.
Smith, J. J., and Welsh, M. J. cAMP stimulates bicarbonate secretion across normal, but not cystic fibrosis airway epithelia. 1148.
Smith, L. T. *See* Edelman, E. R., Nugent, M. A., Smith, L. T., and Karnovsky, M. J.
Smith, M. B. *See* Sinoway, L. I., Rea, R. F., Mosher, T. J., Smith, M. B., and Mark, A. L.
Smith, T., DeMaster, E. G., Furne, J. K., Springfield, J., and Levitt, M. D. First-pass gastric mucosal metabolism of ethanol is negligible in the rat. 1801.
Smith, T. W. *See* Ogawa, S., Barnett, J. V., Sen, L., Galper, J. B., Smith, T. W., and Marsh, J. D.
Smith, U. *See* Jansson, P.-A., Larsson, A., Smith, U., and Lönnroth, P.
Sofronski, M. D. *See* Rabinovici, R., Sofronski, M. D., Renz, J. F., Hillegas, L. M., Esser, K. M., Vernick, J., and Feuerstein, G.
Solin, O. *See* Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H.
Sollberg, S. *See* Ryynänen, J., Sollberg, S., Parente, M. G., Chung, L. C., Christiano, A. M., and Uitto, J.
— *See* Ryynänen, M., Ryynänen, J., Sollberg, S., Iozzo, R. V., Knowlton, R. G., and Uitto, J.
Sommercorn, J. *See* Kida, Y., Raz, I., Maeda, R., Nyomba, B. L., Stone, K., Bogardus, C., Sommercorn, J., and Mott, D. M.
Sontheimer, R. D. *See* Lux, F. A., McCauliffe, D. P., Büttner, D. W., Lucius, R., Capra, J. D., Sontheimer, R. D., and Lieu, T.-S.
Spady, D. K. *See* Woollett, L. A., Spady, D. K., and Dietschy, J. M.
Sparks, C. E. *See* Sparks, J. D., Zolfaghari, R., Sparks, C. E., Smith, H. C., and Fisher, E. A.
Sparks, J. D., Zolfaghari, R., Sparks, C. E., Smith, H. C., and Fisher, E. A. Impaired hepatic apolipoprotein B and E translation in streptozotocin diabetic rats. 1418.
Sparling, P. F. *See* Cohen, M. S., and Sparling, P. F.
Sparrow, C. P., Doebber, T. W., Olszewski, J., Wu, M. S., Ventre, J., Stevens, K. A., and Chao, Y.-s. Low density lipoprotein is protected from oxidation and the progression of atherosclerosis is slowed in cholesterol-fed rabbits by the antioxidant *N,N'*-diphenyl-phenylenediamine. 1885.
Spencer, S. J. *See* Rabinovici, J., Spencer, S. J., Doldi, N., Goldsmith, P. C., Schwall, R., and Jaffe, R. B.
Spielman, W. S. *See* Schwiebert, E. M., Karlson, K. H., Friedman, P. A., Dietl, P., Spielman, W. S., and Stanton, B. A.
Spinas, G. A. *See* Romagnoli, P., Spinas, G. A., and Sinigaglia, F.
Sporn, L. A. *See* Bunce, L. A., Sporn, L. A., and Francis, C. W.
Springer, K. T. *See* Coller, B. S., Springer, K. T., Beer, J. H., Mohandas, N., Scudder, L. E., Norton, K. J., and West, S. M.
Springfield, J. *See* Smith, T., DeMaster, E. G., Furne, J. K., Springfield, J., and Levitt, M. D.
Sredni, B. *See* Bakimer, R., Fishman, P., Blank, M., Sredni, B., Djaldetti, M., and Shoenfeld, Y.
Stanton, B. A. *See* Schwiebert, E. M., Karlson, K. H., Friedman, P. A., Dietl, P., Spielman, W. S., and Stanton, B. A.
Steinfelder, H. J., Radovick, S., Mroczynski, M. A., Hauser, P., McClaskey, J. H., Weintraub, B. D., and Wondisford, F. E. Role of a pituitary-specific transcription factor (Pit-1/GHF-1) or a closely related protein in cAMP regulation of human thyrotropin-β subunit gene expression. 409.
Steinman, S. *See* Schwartz, G. G., Steinman, S., Garcia, J., Greyson, C., Massie, B., and Weiner, M. W.
Stenflo, J. *See* Laurell, M., Christensson, A., Abrahamsson, P.-A., Stenflo, J., and Lilja, H.

Stenmark, K. *See* Botney, M. D., Parks, W. C., Crouch, E. C., Stenmark, K., and Mecham, R. P.
Stevens, K. A. *See* Sparrow, C. P., Doebber, T. W., Olszewski, J., Wu, M. S., Ventre, J., Stevens, K. A., and Chao, Y.-s.
Stewart, A. K. *See* Huang, C., Stewart, A. K., Schwartz, R. S., and Stollar, B. D.
Stewart, J. M. *See* Jaffa, A. A., Vio, C. P., Silva, R. H., Vavrek, R. J., Stewart, J. M., Rust, P. F., and Mayfield, R. K.
Stiehm, E. R. *See* Chaffee, S., Mary, A., Stiehm, E. R., Girault, D., Fischer, A., and Hershfield, M. S.
Stierlé, A. *See* Lanza, F., Stierlé, A., Fournier, D., Morales, M., André, G., Nurden, A. T., and Cazenave, J.-P.
Stollar, B. D. *See* Huang, C., Stewart, A. K., Schwartz, R. S., and Stollar, B. D.
Stone, K. *See* Kida, Y., Raz, I., Maeda, R., Nyomba, B. L., Stone, K., Bogardus, C., Sommercorn, J., and Mott, D. M.
Stoos, B. A., Carretero, O. A., Farhy, R. D., Scicli, G., and Garvin, J. L. Endothelium-derived relaxing factor inhibits transport and increases cGMP content in cultured mouse cortical collecting duct cells. 761.
Stover, M. L. *See* Shapiro, J. R., Stover, M. L., Burn, V. E., McKinstry, M. B., Burshell, A. L., Chipman, S. D., and Rowe, D. W.
Strahler, J. *See* Keim, D., Hailat, N., Melhem, R., Zhu, X. X., Lascu, I., Veron, M., Strahler, J., and Hanash, S. M.
Strassmann, G., Fong, M., Kenney, J. S., and Jacob, C. O. Evidence for the involvement of interleukin 6 in experimental cancer cachexia. 1681.
Strocchi, A., and Levitt, M. D. Factors affecting hydrogen production and consumption by human fecal flora. The critical roles of hydrogen tension and methanogenesis. 1304.
Studer, H. *See* Fey, M. F., Peter, H.-J., Hinds, H. L., Zimmermann, A., Liechti-Gallati, S., Gerber, H., Studer, H., and Tobler, A.
Stutes, D. *See* Zanjani, E. D., Pallavicini, M. G., Ascensao, J. L., Flake, A. W., Langlois, R. G., Reitsma, M., MacKintosh, F. R., Stutes, D., Harrison, M. R., and Tavassoli, M.
Sugimoto, Y. *See* Nishio, K., Sugimoto, Y., Fujiwara, Y., Ohmori, T., Morikage, T., Takeda, Y., Ohata, M., and Saijo, N.
Sugiyama, E. *See* Thomas, L. J., Urakaze, M., DeGasperi, R., Kamitani, T., Sugiyama, E., Chang, H.-M., Warren, C. D., and Yeh, E. T. H.
Sukhabote, R. J. *See* Neuschwander-Tetri, B. A., Ferrell, L. D., Sukhabote, R. J., and Grendell, J. H.
Sumar, N. *See* Axford, J. S., Sumar, N., Alavi, A., Isenberg, D. A., Young, A., Bodman, K. B., and Roitt, I. M.
Sumida, T., Yonaha, F., Maeda, T., Tanabe, E., Koike, T., Tomioka, H., and Yoshida, S. T cell receptor repertoire of infiltrating T cells in lips of Sjögren's syndrome patients. 681.
Sung, J. L. *See* Tsai, S. L., Chen, P. J., Lai, M. Y., Yang, P. M., Sung, J. L., Huang, J. H., Hwang, L. H., Chang, T. H., and Chen, D. S.
Sutherland, H. J. *See* Hughes, P. F. D., Thacker, J. D., Hogge, D., Sutherland, H. J., Thomas, T. E., Lansdorp, P. M., Eaves, C. J., and Humphries, R. K.
Szekely, B. *See* Bernard, C., Szekely, B., Philip, I., Wollman, E., Payen, D., and Tedgui, A.

T

Taegtmeyer, H. *See* Russell, R. R., III, and Taegtmeyer, H.
Taintor, R. *See* Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E.
Takagi, A., Ikeda, Y., Tsutsumi, Z., Shoji, T., and Yamamoto, A. Molecular studies on primary lipoprotein lipase (LPL) deficiency. one base deletion (G^{916}) in exon 5 of LPL gene causes no detectable LPL protein due to the absence of LPL mRNA transcript. 581.
Takahashi, T., Schunkert, H., Isoyama, S., Wei, J. Y., Nadal-Ginard, B., Grossman, W., and Izumo, S. Age-related differences in the expression of proto-oncogene and contractile protein genes in response to pressure overload in the rat myocardium. 939.
— *See* Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D.
Takeda, A., Robinson, J. E., Ho, D. D., Debouck, C., Haigwood, N. L., and Ennis, F. A. Distinction of human immunodeficiency virus type 1 neutralization and infection enhancement by human monoclonal antibodies to glycoprotein 120. 1952.
Takeda, Y. *See* Nishio, K., Sugimoto, Y., Fujiwara, Y., Ohmori, T., Morikage, T., Takeda, Y., Ohata, M., and Saijo, N.
Takeshita, A. *See* Egashira, K., Inou, T., Yamada, A., Hirooka, Y., and Takeshita, A.
Takeyama, Y. *See* Ueda, T., Takeyama, Y., Kaneda, K., Adachi, M., Ohyanagi, H., and Saitoh, Y.
Tamai, H., Gaginella, T. S., Kachur, J. F., Musch, M. W., and Chang, E. B. Ca-mediated stimulation of Cl secretion by reactive oxygen metabolites in human colonic T84 cells. 301.
Tan, C. C. *See* Eckardt, K.-U., Ratcliffe, P. J., Tan, C. C., Bauer, C., and Kurtz, A.
Tanabe, E. *See* Sumida, T., Yonaha, F., Maeda, T., Tanabe, E., Koike, T., Tomioka, H., and Yoshida, S.
Tangel, D. J. *See* Mezzanotte, W. S., Tangel, D. J., and White, D. P.
Tapscott, E. B. *See* Friedman, J. E., Dohm, G. L., Leggett-Frazier, N., Elton, C. W., Tapscott, E. B., Pories, W. P., and Caro, J. F.
Tartar, A. *See* Chamekh, M., Gras-Masse, H., Bossus, M., Facon, B., Dissous, C., Tartar, A., and Capron, A.
Tartini, A. *See* Maddox, D. A., Fortin, S. M., Tartini, A., Barnes, W. D., and Gennari, F. J.
Täuber, M. G. *See* Tureen, J. H., Täuber, M. G., and Sande, M. A.
Tavassoli, M. *See* Zanjani, E. D., Pallavicini, M. G., Ascensao, J. L., Flake, A. W., Langlois, R. G., Reitsma, M., MacKintosh, F. R., Stutes, D., Harrison, M. R., and Tavassoli, M.
Tedgui, A. *See* Bernard, C., Szekely, B., Philip, I., Wollman, E., Payen, D., and Tedgui, A.
Teh, B. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.
Teräs, M. *See* Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H.
Tersmette, M. *See* Schuitemaker, H., Kootstra, N. A., Koppelman, M. H. G. M., Bruisten, S. M., Huisman, H. G., Tersmette, M., and Miedema, F.
Thacker, J. D. *See* Hughes, P. F. D., Thacker, J. D., Hogge, D., Sutherland, H. J., Thomas, T. E., Lansdorp, P. M., Eaves, C. J., and Humphries, R. K.
Thiers, V. *See* Féray, C., Samuel, D., Thiers, V., Gigou, M., Pichon, F., Bismuth, A., Reynes, M., Maisonneuve, P., Bismuth, H., and Bréchot, C.
Thomas, L. J., Urakaze, M., DeGasperi, R., Kamitani, T., Sugiyama, E., Chang, H.-M., Warren, C. D., and Yeh, E. T. H. Differential expression of glycosylphosphatidylinositol-anchored proteins in a murine T cell hybridoma mutant producing limiting amounts of the glycolipid core. Implications for paroxysmal nocturnal hemoglobinuria. 1172.
Thomas, T. E. *See* Hughes, P. F. D., Thacker, J. D., Hogge, D., Sutherland, H. J., Thomas, T. E., Lansdorp, P. M., Eaves, C. J., and Humphries, R. K.
Thompson, R. C. *See* Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L.
Thompson, W. A. *See* Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L.
Thong, B. *See* Weitz, J. I., Silverman, E. K., Thong, B., and Campbell, E. J.
Toba, H. *See* Mirando, W. S., Shiratsuchi, H., Tubesing, K., Toba, H., Ellner, J. J., and Elmets, C. A.
Tobias, J. H. *See* Chow, J., Tobias, J. H., Colston, K. W., and Chambers, T. J.
Tobin, A. J. *See* Kaufman, D. L., Erlander, M. G., Clare-Salzler, M., Atkinson, M. A., Maclaren, N. K., and Tobin, A. J.
Tobler, A. *See* Fey, M. F., Peter, H.-J., Hinds, H. L., Zimmermann, A., Liechti-Gallati, S., Gerber, H., Studer, H., and Tobler, A.
Tokino, T. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.
Tomé, F. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.

Tomioka, H. *See* Sumida, T., Yonaha, F., Maeda, T., Tanabe, E., Koike, T., Tomioka, H., and Yoshida, S.
Tong, M. C. *See* Sandholzer, Ch., Boerwinkle, E., Saha, N., Tong, M. C., and Utermann, G.
Torlone, E. *See* Fanelli, C. G., de Feo, P., Porcellati, F., Perriello, G., Torlone, E., Santeusanio, F., Brunetti, P., and Bolli, G. B.
Tosteson, T. D. *See* Paoletti, L. C., Kasper, D. L., Michon, F., DiFabio, J., Jennings, H. J., Tosteson, T. D., and Wessels, M. R.
Trepel, J. B. *See* Fang, W.-G., Pirnia, F., Bang, Y.-J., Myers, C. E., and Trepel, J. B.
Tsai, S. L., Chen, P. J., Lai, M. Y., Yang, P. M., Sung, J. L., Huang, J. H., Hwang, L. H., Chang, T. H., and Chen, D. S. Acute exacerbations of chronic type B hepatitis are accompanied by increased T cell responses to hepatitis B core and e antigens. Implications for hepatitis B e antigen seroconversion. 87.
Tse, W. T. *See* Gallagher, P. G., Tse, W. T., Coetzer, T., Lecomte, M.-C., Garbarz, M., Zarkowsky, H. S., Baruchel, A., Ballas, S. K., Dhermy, D., Palek, J., and Forget, B. G.
Tso, P. *See* Fujimoto, K., Imamura, I., Granger, D. N., Wada, H., Sakata, T., and Tso, P.
Tsukada, T. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.
Tsutsumi, Z. *See* Takagi, A., Ikeda, Y., Tsutsumi, Z., Shoji, T., and Yamamoto, A.
Tubesing, K. *See* Mirardo, W. S., Shiratsuchi, H., Tubesing, K., Toba, H., Ellner, J. J., and Elmets, C. A.
Tuckwell, J. E. *See* Albani, S., Tuckwell, J. E., Esparza, L., Carson, D. A., and Roudier, J.
Tung, K. S. K. *See* Rhim, S. H., Millar, S. E., Robey, F., Luo, A.-M., Lou, Y.-H., Yule, T., Allen, P., Dean, J., and Tung, K. S. K.
Tureen, J. H., Täuber, M. G., and Sande, M. A. Effect of hydration status on cerebral blood flow and cerebrospinal fluid lactic acidosis in rabbits with experimental meningitis. 947.
Turner, N., Mason, P. J., Brown, R., Fox, M., Povey, S., Rees, A., and Pusey, C. D. Molecular cloning of the human Goodpasture antigen demonstrates it to be the $\alpha 3$ chain of type IV collagen. 592.
Turner, R. J. *See* Paulais, M., and Turner, R. J.

U

Ueda, T., Takeyama, Y., Kaneda, K., Adachi, M., Ohyanagi, H., and Saitoh, Y. Protective effect of a microtubule stabilizer taxol on caerulein-induced acute pancreatitis in rat. 234.
Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B. Vertical transmission of human immunodeficiency virus (HIV) infection. Reactivity of maternal sera with glycoprotein 120 and 41 peptides from HIV type 1. 1928.
Uitto, J. *See* Ryynänen, J., Sollberg, S., Parente, M. G., Chung, L. C., Christiano, A. M., and Uitto, J.
— *See* Ryynänen, M., Ryynänen, J., Sollberg, S., Iozzo, R. V., Knowlton, R. G., and Uitto, J.
Umapathysivam, K. *See* McNeilage, L. J., Umapathysivam, K., Macmillan, E., Guidolin, A., Whittingham, S., and Gordon, T.
Urakaze, M. *See* Thomas, L. J., Urakaze, M., DeGasperi, R., Kamitani, T., Sugiyama, E., Chang, H.-M., Warren, C. D., and Yeh, E. T. H.
Ursprung, H. *See* Zenobi, P. D., Graf, S., Ursprung, H., and Froesch, E. R.
Utermann, G. *See* Sandholzer, Ch., Boerwinkle, E., Saha, N., Tong, M. C., and Utermann, G.

V

Vaag, A., Henriksen, J. E., and Beck-Nielsen, H. Decreased insulin activation of glycogen synthase in skeletal muscles in young nonobese Caucasian first-degree relatives of patients with non–insulin-dependent diabetes mellitus. 782.
Vachvanichsanong, P. *See* Sidhu, A., Vachvanichsanong, P., Jose, P. A., and Felder, R. A.
Van Blaricom, G. *See* Erickson, R. W., Malawista, S. E., Garrett, M. C., Van Blaricom, G., Leto, T. L., and Curnutte, J. T.
Van De Winkel, M. *See* Kiekens, R., Veld, P. In't, Mahler, T., Schuit, F., Van De Winkel, M., and Pipeleers, D.
Van den Bos, T. *See* Beertsen, W., and Van den Bos, T.
Van der Ploeg, L. H. T. *See* Korman, S. H., Le Blancq, S. M., Deckelbaum, R. J., and Van der Ploeg, L. H. T.
Van Engen, C. G. J. *See* Escher, J. C., de Koning, N. D., Van Engen, C. G. J., Arora, S., Büller, H. A., Montgomery, R. K., and Grand, R. J.
Vanni, T. M. *See* Saxena, U., Klein, M. G., Vanni, T. M., and Goldberg, I. J.
Van Zee, K. J. *See* Fischer, E., Marano, M. A., Van Zee, K. J., Rock, C. S., Hawes, A. S., Thompson, W. A., DeForge, L., Kenney, J. S., Remick, D. G., Bloedow, D. C., Thompson, R. C., Lowry, S. F., and Moldawer, L. L.
Varki, A. The times they are a'changin': Changing with the times. 721.
Vatner, S. F. *See* Komamura, K., Shannon, R. P., Pasipoularides, A., Ihara, T., Lader, A. S., Patrick, T. A., Bishop, S. P., and Vatner, S. F.
— *See* Perreault, C. L., Shannon, R. P., Komamura, K., Vatner, S. F., and Morgan, J. P.
Vavrek, R. J. *See* Jaffa, A. A., Vio, C. P., Silva, R. H., Vavrek, R. J., Stewart, J. M., Rust, P. F., and Mayfield, R. K.
Vavrin, Z. *See* Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E.
Vazquez, M. A. *See* McKay, D. B., Vazquez, M. A., Redline, R. W., and Lu, C. Y.
Vecchio, G. *See* Santoro, M., Carlomagno, F., Hay, I. D., Herrmann, M. A., Grieco, M., Melillo, R., Pierotti, M. A., Bongarzone, I., Della Porta, G., Berger, N., Peix, J. L., Paulin, C., Fabien, N., Vecchio, G., Jenkins, R. B., and Fusco, A.
Veld, P. In't. *See* Kiekens, R., Veld, P. In't, Mahler, T., Schuit, F., Van De Winkel, M., and Pipeleers, D.
Ventre, J. *See* Sparrow, C. P., Doebber, T. W., Olszewski, J., Wu, M. S., Ventre, J., Stevens, K. A., and Chao, Y.-s.
Verhoef, J. *See* Peterson, P. K., Gekker, G., Chao, C. C., Hu, S., Edelman, C., Balfour, H. H., Jr., and Verhoef, J.
Vernick, J. *See* Rabinovici, R., Sofronski, M. D., Renz, J. F., Hillegas, L. M., Esser, K. M., Vernick, J., and Feuerstein, G.
Veron, M. *See* Keim, D., Hailat, N., Melhem, R., Zhu, X. X., Lascu, I., Veron, M., Strahler, J., and Hanash, S. M.
Vidaud, D., Emmerich, J., Alhenc-Gelas, M., Yvart, J., Fiessinger, J. N., and Aiach, M. Met 358 to Arg mutation of alpha$_1$-antitrypsin associated with protein C deficiency in a patient with mild bleeding tendency. 1537.
Vierling, J. M. *See* Hu, K.-Q., Yu, C.-H., and Vierling, J. M.
Vigneri, R. *See* Milazzo, G., Yip, C. C., Maddux, B. A., Vigneri, R., and Goldfine, I. D.
Vila, L. M. *See* Holoshitz, J., Vila, L. M., Keroack, B. J., McKinley, D. R., and Bayne, N. K.
Vincent, N. *See* Récan, D., Chafey, P., Leturcq, F., Hugnot, J-P., Vincent, N., Tomé, F., Collin, H., Simon, D., Czernichow, P., Nicholson, L. V. B., Fardeau, M., Kaplan, J-C., and Chelly, J.
Vio, C. P. *See* Jaffa, A. A., Vio, C. P., Silva, R. H., Vavrek, R. J., Stewart, J. M., Rust, P. F., and Mayfield, R. K.
Voelker, D. R. *See* Zimmerman, P. E., Voelker, D. R., McCormack, F. X., Paulsrud, J. R., and Martin, W. J., II
Voipio-Pulkki, L.-M. *See* Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H.
Volanakis, J. E., Zhu, Z.-B., Schaffer, F. M., Macon, K. J., Palermos, J., Barger, B. O., Go, R., Campbell, R. D., Schroeder, H. W., Jr., and Cooper, M. D. Major histocompatibility complex class III genes and susceptibility to immunoglobulin a deficiency and common variable immunodeficiency. 1914.
Von dem Borne, A. E. G. Kr. *See* Kuijpers, R. W. A. M., Faber, N. M., Cuypers, H. Th. M., Ouwehand, W. H., and Von dem Borne, A. E. G. Kr.
Vu, T.-K. H. *See* Coughlin, S. R., Vu, T.-K. H., Hung, D. T., and Wheaton, V. I.
— *See* Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Charo, I. F., Nelken, N. A., Esmon, N., Esmon, C. T., and Coughlin, S. R.
— *See* Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Ishii, K., and Coughlin, S. R.

W

Wada, H. *See* Fujimoto, K., Imamura, I., Granger, D. N., Wada, H., Sakata, T., and Tso, P.

Wand, G. *See* Diehl, A. M., Yang, S. Q., Wolfgang, D., and Wand, G.

Wang, X.-H. *See* Chang, H., Messner, H. A., Wang, X.-H., Yee, C., Addy, L., Meharchand, J., and Minden, M. D.

Ward, J. H. *See* Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E.

Warner, C. A., Yoo, H-W, Roberts, A. G., and Desnick, R. J. Congenital erythropoietic porphyria: identification and expression of exonic mutations in the uroporphyrinogen III synthase gene. 693.

Warren, C. D. *See* Thomas, L. J., Urakaze, M., DeGasperi, R., Kamitani, T., Sugiyama, E., Chang, H.-M., Warren, C. D., and Yeh, E. T. H.

Warren, S. L. *See* Bell, L., Luthringer, D. J., Madri, J. A., and Warren, S. L.

Warrener, P. *See* Rosenfeld, S. J., Yoshimoto, K., Kajigaya, S., Anderson, S., Young, N. S., Field, A., Warrener, P., Bansal, G., and Collett, M. S.

Watanabe, Y. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.

— *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.

Watt, F. M. *See* Hertle, M. D., Kubler, M.-D., Leigh, I. M., and Watt, F. M.

Weber, G. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.

Wegelius, U. *See* Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H.

Wei, J. Y. *See* Takahashi, T., Schunkert, H., Isoyama, S., Wei, J. Y., Nadal-Ginard, B., Grossman, W., and Izumo, S.

Weiner, D. B. *See* Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B.

Weiner, M. W. *See* Schwartz, G. G., Steinman, S., Garcia, J., Greyson, C., Massie, B., and Weiner, M. W.

Weintraub, B. D. *See* Steinfelder, H. J., Radovick, S., Mroczynski, M. A., Hauser, P., McClaskey, J. H., Weintraub, B. D., and Wondisford, F. E.

Weitz, J. I., Silverman, E. K., Thong, B., and Campbell, E. J. Plasma levels of elastase-specific fibrinopeptides correlate with proteinase inhibitor phenotype. Evidence for increased elastase activity in subjects with homozygous and heterozygous deficiency of α_1-proteinase inhibitor. 766.

Welch, W. J., and Wilcox, C. S. Potentiation of tubuloglomerular feedback in the rat by thromboxane mimetic. Role of macula densa. 1857.

Welikson, R. *See* Klein, I., Ojamaa, K., Samarel, A. M., Welikson, R., and Hong, C.

Weller, P. F. *See* Liu, L. X., and Weller, P. F.

Welling, C. *See* Olansky, L., Welling, C., Giddings, S., Adler, S., Bourey, R., Dowse, G., Serjeantson, S., Zimmet, P., and Permutt, M. A.

Wells, J. A. *See* Fu, Y.-K., Arkins, S., Fuh, G., Cunningham, B. C., Wells, J. A., Fong, S., Cronin, M. J., Dantzer, R., and Kelley, K. W.

Welsh, M. J. *See* Denning, G. M., Ostedgaard, L. S., Cheng, S. H., Smith, A. E., and Welsh, M. J.

— *See* Smith, J. J., and Welsh, M. J.

Wenzlaff, P. *See* Amende, I., Bentivegna, L. A., Zeind, A. J., Wenzlaff, P., Grossman, W., and Morgan, J. P.

Werelius, B. *See* Larsson, C., Shepherd, J., Nakamura, Y., Blomberg, C., Weber, G., Werelius, B., Hayward, N., Teh, B., Tokino, T., Seizinger, B., Skogseid, B., Öberg, K., and Nordenskjöld, M.

Wessels, M. R. *See* Paoletti, L. C., Kasper, D. L., Michon, F., DiFabio, J., Jennings, H. J., Tosteson, T. D., and Wessels, M. R.

West, S. M. *See* Coller, B. S., Springer, K. T., Beer, J. H., Mohandas, N., Scudder, L. E., Norton, K. J., and West, S. M.

Westenfelder, C. *See* Hibbs, J. B., Jr., Westenfelder, C., Taintor, R., Vavrin, Z., Kablitz, C., Baranowski, R. L., Ward, J. H., Menlove, R. L., McMurry, M. P., Kushner, J. P., and Samlowski, W. E.

Weyand, C. *See* He, X., Goronzy, J., and Weyand, C.

Weyand, C. M., Xie, C., and Goronzy, J. J. Homozygosity for the HLA-DRB1 allele selects for extraarticular manifestations in rheumatoid arthritis. 2033.

Whang-Peng, J. *See* Felix, C. A., Nau, M. M., Takahashi, T., Mitsudomi, T., Chiba, I., Poplack, D. G., Reaman, G. H., Cole, D. E., Letterio, J. J., Whang-Peng, J., Knutsen, T., and Minna, J. D.

Wheaton, V. I. *See* Coughlin, S. R., Vu, T.-K. H., Hung, D. T., and Wheaton, V. I.

— *See* Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Charo, I. F., Nelken, N. A., Esmon, N., Esmon, C. T., and Coughlin, S. R.

— *See* Hung, D. T., Vu, T.-K. H., Wheaton, V. I., Ishii, K., and Coughlin, S. R.

White, D. P. *See* Mezzanotte, W. S., Tangel, D. J., and White, D. P.

Whitehurst, C. E. *See* Hashimoto, K., Whitehurst, C. E., Matsubara, T., Hirohata, K., and Lipsky, P. E.

Whittingham, S. *See* McNeilage, L. J., Umapathysivam, K., Macmillan, E., Guidolin, A., Whittingham, S., and Gordon, T.

Wiedermann, C. J., Niedermühlbichler, M., and Braunsteiner, H. Priming of polymorphonuclear neutrophils by atrial natriuretic peptide in vitro. 1580.

Wietholtz, H. *See* Marschall, H.-U., Matern, H., Wietholtz, H., Egestad, B., Matern, S., and Sjövall, J.

Wilcox, C. S. *See* Welch, W. J., and Wilcox, C. S.

Wilder, R. L. *See* Sano, H., Hla, T., Maier, J. A. M., Crofford, L. J., Case, J. P., Maciag, T., and Wilder, R. L.

Williams, D. C. *See* Girasole, G., Jilka, R. L., Passeri, G., Boswell, S., Boder, G., Williams, D. C., and Manolagas, S. C.

Williams, R. S. *See* Benjamin, I. J., Horie, S., Greenberg, M. L., Alpern, R. J., and Williams, R. S.

Williams, W. V. *See* Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B.

Willoughby, A. *See* Ugen, K. E., Goedert, J. J., Boyer, J., Refaeli, Y., Frank, I., Williams, W. V., Willoughby, A., Landesman, S., Mendez, H., Rubinstein, A., Kieber-Emmons, T., and Weiner, D. B.

Wilson, D. B., and Wilson, M. P. Identification and subcellular localization of human Rab5b, a new member of the ras-related superfamily of GTPases. 996.

Wilson, J. D. *See* Jenkins, E. P., Andersson, S., Imperato-McGinley, J., Wilson, J. D., and Russell, D. W.

Wilson, M. P. *See* Wilson, D. B., and Wilson, M. P.

Wilson, P. M. *See* Adderson, E. E., Shackelford, P. G., Insel, R. A., Quinn, A., Wilson, P. M., and Carroll, W. L.

Winardi, R. *See* Mohandas, N., Winardi, R., Knowles, D., Leung, A., Parra, M., George, E., Conboy, J., and Chasis, J.

Winer, J. *See* Jakeman, L. B., Winer, J., Bennett, G. L., Altar, C. A., and Ferrara, N.

Wolfgang, D. *See* Diehl, A. M., Yang, S. Q., Wolfgang, D., and Wand, G.

Wollman, E. *See* Bernard, C., Szekely, B., Philip, I., Wollman, E., Payen, D., and Tedgui, A.

Wondisford, F. E. *See* Steinfelder, H. J., Radovick, S., Mroczynski, M. A., Hauser, P., McClaskey, J. H., Weintraub, B. D., and Wondisford, F. E.

Woollett, L. A., Spady, D. K., and Dietschy, J. M. Regulatory effects of the saturated fatty acids 6:0 through 18:0 on hepatic low density lipoprotein receptor activity in the hamster. 1133.

Wu, L.-H. *See* Chiu, J.-H., Kao, H.-L., Wu, L.-H., Chang, H.-M., and Lui, W.-Y.

Wu, M. S. *See* Sparrow, C. P., Doebber, T. W., Olszewski, J., Wu, M. S., Ventre, J., Stevens, K. A., and Chao, Y.-s.

X

Xie, C. *See* Weyand, C. M., Xie, C., and Goronzy, J. J.

Y

Yamada, A. *See* Egashira, K., Inou, T., Yamada, A., Hirooka, Y., and Takeshita, A.

Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y. Apolipoprotein E prevents the progression of atherosclerosis in Watanabe heritable hyperlipidemic rabbits. 706.

Yamaguchi, S. *See* Fukao, T., Yamaguchi, S., Orii, T., Schutgens, R. B. H., Osumi, T., and Hashimoto, T.

Yamaguchi, Y. *See* Quarfordt, S. H., Landis, B., Cucchiaro, G., Yamaguchi, Y., and Oswald, B.

Yamamoto, A. *See* Takagi, A., Ikeda, Y., Tsutsumi, Z., Shoji, T., and Yamamoto, A.

Yang, P. M. *See* Tsai, S. L., Chen, P. J., Lai, M. Y., Yang, P. M., Sung, J. L., Huang, J. H., Hwang, L. H., Chang, T. H., and Chen, D. S.

Yang, S. Q. *See* Diehl, A. M., Yang, S. Q., Wolfgang, D., and Wand, G.

Yano, H., Kitano, N., Morimoto, M., Polonsky, K. S., Imura, H., and Seino, Y. A novel point mutation in the human insulin gene giving rise to hyperproinsulinemia (Proinsulin Kyoto). 1902.

Yazaki, Y. *See* Yamada, N., Inoue, I., Kawamura, M., Harada, K., Watanabe, Y., Shimano, H., Gotoda, T., Shimada, M., Kohzaki, K., Tsukada, T., Shiomi, M., Watanabe, Y., and Yazaki, Y.

Yee, C. *See* Chang, H., Messner, H. A., Wang, X.-H., Yee, C., Addy, L., Meharchand, J., and Minden, M. D.

Yeh, E. T. H. *See* Thomas, L. J., Urakaze, M., DeGasperi, R., Kamitani, T., Sugiyama, E., Chang, H.-M., Warren, C. D., and Yeh, E. T. H.

Yip, C. C. *See* Milazzo, G., Yip, C. C., Maddux, B. A., Vigneri, R., and Goldfine, I. D.

Yki-Järvinen, H. *See* Nuutila, P., Koivisto, V. A., Knuuti, J., Ruotsalainen, U., Teräs, M., Haaparanta, M., Bergman, J., Solin, O., Voipio-Pulkki, L.-M., Wegelius, U., and Yki-Järvinen, H.

Yokosuka, O. *See* Ehata, T., Omata, M., Yokosuka, O., Hosoda, K., and Ohto, M.

Yonaha, F. *See* Sumida, T., Yonaha, F., Maeda, T., Tanabe, E., Koike, T., Tomioka, H., and Yoshida, S.

Yoo, H-W. *See* Warner, C. A., Yoo, H-W, Roberts, A. G., and Desnick, R. J.

Yoshida, S. *See* Sumida, T., Yonaha, F., Maeda, T., Tanabe, E., Koike, T., Tomioka, H., and Yoshida, S.

Yoshimoto, K. *See* Rosenfeld, S. J., Yoshimoto, K., Kajigaya, S., Anderson, S., Young, N. S., Field, A., Warrener, P., Bansal, G., and Collett, M. S.

Yoshimura, K. *See* Nakamura, H., Yoshimura, K., McElvaney, N. G., and Crystal, R. G.

Youker, K., Smith, C. W., Anderson, D. C., Miller, D., Michael, L. H., Rossen, R. D., and Entman, M. L. Neutrophil adherence to isolated adult cardiac myocytes. Induction by cardiac lymph collected during ischemia and reperfusion. 602.

Young, A. *See* Axford, J. S., Sumar, N., Alavi, A., Isenberg, D. A., Young, A., Bodman, K. B., and Roitt, I. M.

Young, N. S. *See* Rosenfeld, S. J., Yoshimoto, K., Kajigaya, S., Anderson, S., Young, N. S., Field, A., Warrener, P., Bansal, G., and Collett, M. S.

Yu, C.-H. *See* Hu, K.-Q., Yu, C.-H., and Vierling, J. M.

Yule, T. *See* Rhim, S. H., Millar, S. E., Robey, F., Luo, A.-M., Lou, Y.-H., Yule, T., Allen, P., Dean, J., and Tung, K. S. K.

Yvart, J. *See* Vidaud, D., Emmerich, J., Alhenc-Gelas, M., Yvart, J., Fiessinger, J. N., and Aiach, M.

Z

Zack, J. A. *See* Rich, E. A., Chen, I. S. Y., Zack, J. A., Leonard, M. L., and O'Brien, W. A.

Zager, R. A., and Foerder, C. A. Effects of inorganic iron and myoglobin on in vitro proximal tubular lipid peroxidation and cytotoxicity. 989.

Zanjani, E. D., Pallavicini, M. G., Ascensao, J. L., Flake, A. W., Langlois, R. G., Reitsma, M., MacKintosh, F. R., Stutes, D., Harrison, M. R., and Tavassoli, M. Engraftment and long-term expression of human fetal hemopoietic stem cells in sheep following transplantation in utero. 1178.

Zarkowsky, H. S. *See* Gallagher, P. G., Tse, W. T., Coetzer, T., Lecomte, M.-C., Garbarz, M., Zarkowsky, H. S., Baruchel, A., Ballas, S. K., Dhermy, D., Palek, J., and Forget, B. G.

Zeidel, M. L. *See* Gunning, M. E., Brady, H. R., Otuechere, G., Brenner, B. M., and Zeidel, M. L.

Zeind, A. J. *See* Amende, I., Bentivegna, L. A., Zeind, A. J., Wenzlaff, P., Grossman, W., and Morgan, J. P.

Zenobi, P. D., Graf, S., Ursprung, H., and Froesch, E. R. Effects of insulin-like growth factor-I on glucose tolerance, insulin levels, and insulin secretion. 1908.

Zhang, X. *See* Anversa, P., Zhang, X., Li, P., and Capasso, J. M.

Zhou, P. *See* Hamadeh, R. M., Jarvis, G. A., Galili, U., Mandrell, R. E., Zhou, P., and Griffiss, J. M.

Zhu, D., Cheng, C.-F., and Pauli, B. U. Blocking of lung endothelial cell adhesion molecule-1 (Lu-ECAM-1) inhibits murine melanoma lung metastasis. 1718.

Zhu, X. X. *See* Keim, D., Hailat, N., Melhem, R., Zhu, X. X., Lascu, I., Veron, M., Strahler, J., and Hanash, S. M.

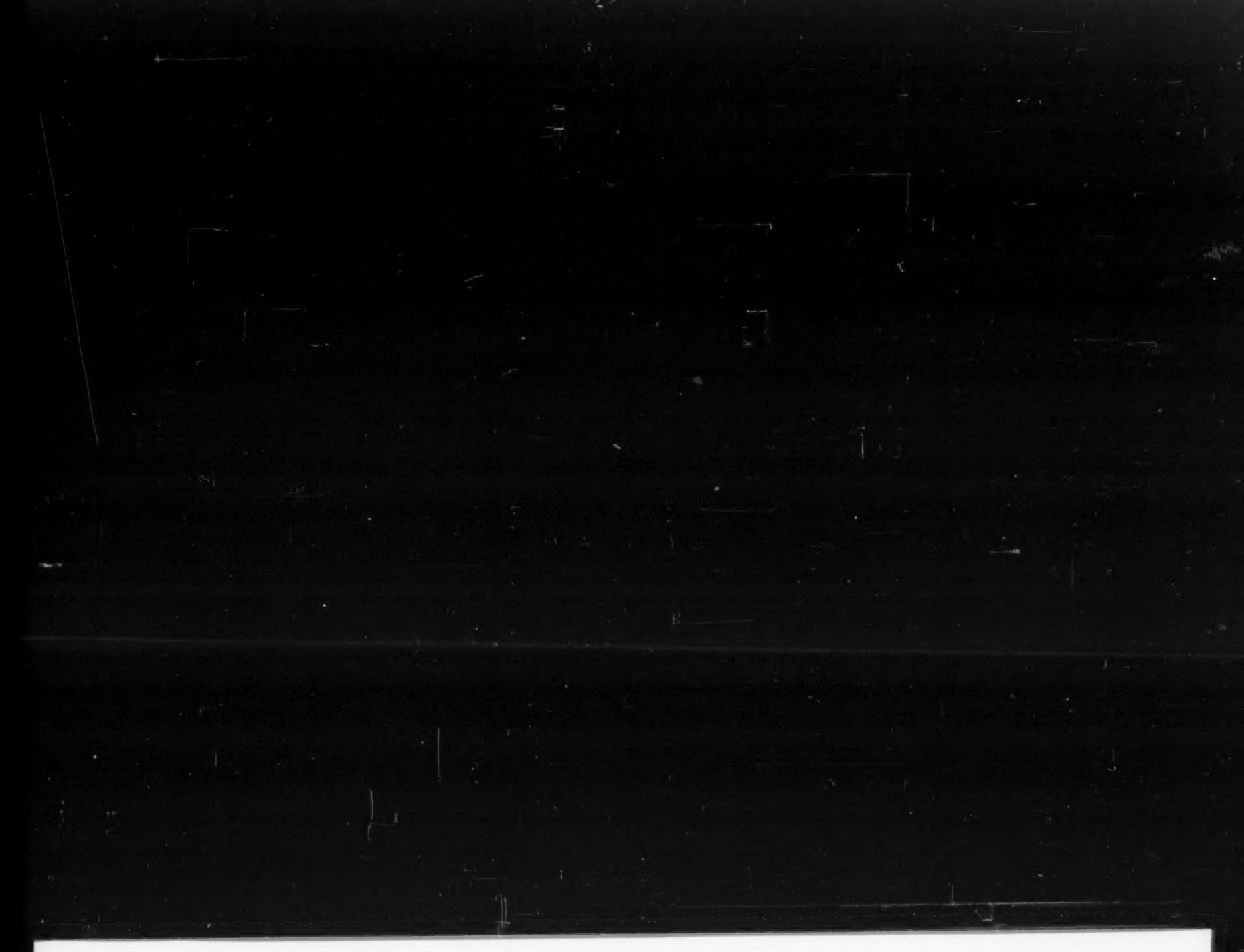
Zhu, Z.-B. *See* Volanakis, J. E., Zhu, Z.-B., Schaffer, F. M., Macon, K. J., Palermos, J., Barger, B. O., Go, R., Campbell, R. D., Schroeder, H. W., Jr., and Cooper, M. D.

Zimmerman, F. G. *See* Lenz, H. J., Messmer, B., and Zimmerman, F. G.

Zimmerman, P. E., Voelker, D. R., McCormack, F. X., Paulsrud, J. R., and Martin, W. J., II. 120-kD surface glycoprotein of *Pneumocystis carinii* is a ligand for surfactant protein A. 143.

Zimmermann, A. *See* Fey, M. F., Peter, H.-J., Hinds, H. L., Zimmermann, A., Liechti-Gallati, S., Gerber, H., Studer, H., and Tobler, A.

Zimmet, P. *See* Olansky, L., Welling, C., Giddings, S., Adler, S., Bourey, R., Dowse, G., Serjeantson, S., Zimmet, P., and Permutt, M. A.

Zolfaghari, R. *See* Sparks, J. D., Zolfaghari, R., Sparks, C. E., Smith, H. C., and Fisher, E. A.

Zutter, M. M. *See* Pacifici, R., Basilico, C., Roman, J., Zutter, M. M., Santoro, S. A., and McCracken, R.